

**CLOSE OUT REPORT**

**FLORENCE LAND RECONTOURING LANDFILL REMEDIATION**

**Florence Twp, Burlington County NJ**

**November 1991 – August 1994**

**Prepared by:**

**Dennis F. Reinknecht  
Dennis Faherty  
Construction Managers  
Bureau of Construction  
Division of Publicly Funded Site Remediation  
New Jersey Department of Environmental Protection**

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## I. EXECUTIVE SUMMARY

The NJDEP Division of Publicly Funded Site Remediation (DPFSR) has completed the remediation of the Florence Land Recontouring Landfill CERCLA site.

The Florence Land Recontouring Landfill (FLR) is located in Florence, Mansfield and Springfield Townships, Burlington County, New Jersey. The property boundary of the FLR landfill encompasses approximately 60 acres. Out of the 60 acres, approximately 29 acres were used as a municipal landfill from 1973 to 1981.

The FLR remediation performed by the NJDEP involved the;

- Construction of a synthetic membrane and clay cap over the entire landfill in accordance with USEPA RCRA guidelines.
- Construction of a circumferential soil-bentonite containment wall.
- Construction of an upgradient groundwater interceptor system to reduce hydrostatic head on the slurry wall.
- Construction of a surface water management system including extensive grading to improve slopes and revegetation.
- Construction of a leachate extraction and handling system.
- Decommissioning the lagoons including removal and disposal of liquids, bottom sediments and miscellaneous surface debris.
- Construction of a fence with warning signs.
- Development and implementation of monitoring plan.

The Construction Contract A49921 was awarded on November 12, 1991 to Tricil Environmental Response, Inc. (Tricil) aka Laidlaw Environmental Services, Inc (Laidlaw) of Houston, Texas. Tricil was solicited through an open competitive procurement and performed the remedial construction for a total cost of \$17,000,725.35.

The Resident Engineering/Construction Oversight was provided by Acres International Corp. (Acres), the remediation designer, through a Waiver of Advertising for a total cost of \$2,495,280.00.

The construction phase of the FLR remediation was completed on August 19, 1994. The operation and maintenance phase required by Tricil was completed on February 28, 1996.

There are no outstanding claims related to this project and all retainage has been released.

## II. INTRODUCTION

The New Jersey Department of Environmental Protection (NJDEP) under a cooperative agreement with the United States Environmental Protection Agency (USEPA), directed a remedial design and construction program at the Florence Land Recontouring (FLR) Landfill site in Burlington County, New Jersey. The remediation has been undertaken because of environmental concerns about existing conditions at the site.

### A. Site Location and Description

The FLR Landfill is located in Florence, Mansfield and Springfield Townships, Burlington County, New Jersey. The property boundary of the FLR Landfill encompasses approximately 60 acres. Out of a total 60 acres, the area which contains the actual landfilled wastes is 29 acres. The FLR Landfill site is located approximately 1 mile south of Interchange 52 of Interstate 295, and is between Interstate 295 and the New Jersey Turnpike, Interstate 95. Access to the landfill via Cedar Lane Extension, which adjoins the west and southwest portions of the site. Land use in the vicinity of the site is residential and agricultural. The site is bordered by farmland and the Assiscunk Creek, which is used for both recreational purposes and irrigation.

### B. Site History

The FLR Landfill operated as a solid waste disposal facility from November 1973 until November 1981. Florence Land Development, a partnership, owned the site from April 1974 to May 1978. Subsequently, Florence Land Development, Inc. has owned the site. For all but one year (1977), the site was operated by Florence Land Recontouring, Inc. In 1977, the site was operated by Jersey Environmental Management Services. During its operation, the landfill was permitted to accept sanitary and industrial (non-chemical) waste, including septage and sewage sludge.

In 1975, an investigation by NJDEP disclosed chemical waste disposal at the landfill. In January 1979, a Consent Order to alleviate and control further contamination was issued due to a history of environmental concerns, including observed leachate seeps, potential groundwater contamination and emissions to the atmosphere.

During this period, compliance with the Consent Order was sporadic. Subsequent enforcement action was necessitated by the lack of adherence to the terms of the Consent Order.

In July, 1981, Florence Land Recontouring, Inc. submitted a final closure plan, and operations terminated in November 1981. The wastefill area was then capped with onsite clay like material, reportedly of the Merchantville Formation, and revegetated.

In a related matter on December 24, 1980, the Board of Chose Freeholders of the County of Burlington (the County) adopted a resolution which identified a 600-acre parcel in the Townships of Springfield, Florence and Mansfield as the probable site for implementation of the future Burlington County Resource Recovery Facilities Complex (BCRRC). Since this future complex surrounds the FLR Landfill, the County attempted to determine the past and potential environmental impacts associated with the FLR Landfill site. During 1981 to 1982, the County, with consultant assistance, completed a hydrogeologic assessment of the FLR Landfill site. In 1984, an Environmental Impact Statement was prepared to address impacts of the BCRRC on the surrounding community. During 1985 to 1986, a Remedial Investigation and Feasibility Study (RI/FS) was conducted at the FLR Landfill site by Black and Veatch (B&V), an engineering consulting firm, under the direction of NJDEP. Based on the results and alternatives included in the RI/FS, a record of decision (ROD) was formulated which selected the planned remedial activities for the design and construction contract.

#### C. Nature and Extent of Concern

The main source of environmental concern related to Florence Landfill has been the reported deposition of approximately 95 tons of hazardous waste at the site, including phthalates, heavy metals and vinyl chloride monomers. This amount was based upon NJDEP industrial survey generator reports.

There is some evidence of the alleged hazardous waste landfilling at the site. Sampling and analysis of leachate in wastefill wells indicated the presence of volatile organic compounds and heavy metals. Leachate seeps have been observed in several areas of the site.

#### D. Summary of Previous Investigation Results

This Section contains a brief summary of the results of previous investigations at the Florence Landfill. The main source of this information is the RI/FS report produced in 1986. Results of investigations by Geraghty and Miller, Inc. (G&M) in 1982 were also considered.

Results of the 1982 G&M investigation did not resolve concerns related to possible contaminant migration from the Florence wastefill. Various volatile organic compounds (VOC's) with concentrations on the order of several parts per million (ppm) were detected in the leachate samples collected from wastefill wells. There was, however, a high degree of variability in the results between wastefill wells. Shallow wells outside of the wastefill in the Pleistocene deposits indicated very low concentrations of VOCs. Finally, the results of domestic well analyses detected only very low concentrations (0.5 parts per billion to 20 parts per billion (ppb)) of one volatile organic constituent (methylene chloride); this contaminant was detected both upgradient and downgradient of the wastefill. It should be noted that methylene chloride is commonly used in analytical laboratories and the presence of this chemical is suspected as being a laboratory artifact and not indicative of actual site contamination.

In 1985, B&V collected groundwater and leachate samples for laboratory analysis from the monitoring wells installed during the RI, from selected wells, previously installed by G&M, and from three on-site leachate manholes. The samples were analyzed for USEPA Priority Pollutant Compounds, and for 40 tentatively identified organic, non-priority pollutant compounds (PP+40). In addition, 20 domestic water supply wells were sampled and analyzed for the same constituents.

The results of the B&V groundwater investigations indicated that leachate quality in the wastefill is considered approximately indicative of fluids anticipated within a landfill. Relatively high levels of organic compounds and heavy metals were evident in the samples from wastefill wells BV-1S, BV-2S and BV-3S.

The samples from Pleistocene monitoring wells (BV-4S, BV-5S and BV-6S) indicated total VOC concentrations ranging from 3 ppb to 232 ppb. In addition, several inorganic constituents indicated elevated levels. Upgradient and downgradient monitoring wells screened in the Raritan-Mahothy aquifer (BV-4D, BV-5D, BV-6D) exhibited similar levels of groundwater quality upon sampling and analysis. B&V assumed this to indicate that the overall water quality in the Raritan-Magothy has not been impacted by the wastefill.

Domestic water supply wells that were analyzed by B&V indicates similar results to those of the G&M studies. Methylene chloride as the only parameter detected, with concentrations ranging from 4 ppb to 23 ppb. This compound was considered most probably a laboratory artifact and not indicative of actual contamination. Acid and base/neutral compounds were confirmed as present in many of the wells. Most of these were tentatively identified compounds estimated between 4 ppb and 50 ppb in concentration. Several inorganic constituents were also present in the domestic wells; however, heavy metal constituents were virtually absent.

B&V's sampling and analysis of the leachate manholes (MH-2, MH-5, and MH-8) indicated that low levels of several VOCs and very low levels of several base/neutral compounds were present. The heavy metal fraction of inorganic constituents was not present in significant concentrations.

Data interpretation by B&V indicated that overall, the degree of contamination in the groundwater is limited. Data collected during the 1985-86 RI generally correlated with the data collected by G&M in 1982.

#### E. Surface Water and Sediment Investigations

A total of five surface water and sediment locations were sampled by B&V during the RI. Three of these points were in Assiscunk Creek, one was in the surface water retention pond adjacent to the wastefill, and one was in a drainage ditch near the site entrance gate. Water quality data from PP + 40 and conventional parameter analyses indicated that the Florence Landfill has very little change between the upstream and downstream water-quality parameters. A comparison of the RI data with that collected by G&M in 1982 indicated that Assiscunk Creek water quality had changed only slightly in the three-year period between sampling events.

Sediment sample analyses further supported the B&V conclusion that runoff from the landfill does not significantly affect Assiscunk Creek. Concentrations of the constituents detected downstream of the site lie within an expected range of the upstream conditions.

#### F. Soil Investigation

Chemical analyses were performed during the RI on samples collected during a soil-boring program. The soil borings were performed coincident with the monitoring well installation program. Soils within the wastefill and adjacent, in-situ soils were sampled and analyzed.

The soil samples from within the wastefill contained numerous organic compounds, especially the base/neutral fraction. Several heavy metals were also detected. B&V concluded that the contaminants present were generally common in landfill environments; however, the concentrations were lower than would be expected to occur in an industrial waste landfill. B&V attributed this to dilution caused by the constant inflow of groundwater through the wastefill, and to the effectiveness of the existing leachate collection system.

Significantly lower organic compound concentrations existed in the soil matrix adjacent to the wastefill. However, heavy metal analyses indicated concentrations similar to and sometimes higher than the wastefill soil samples. B&V attributed the reduction in organic content to dilution with time and distance, as well as degradation.

#### G. Air Investigations

A limited air investigation was performed during the RI in an attempt to determine if volatile organic compounds were being emitted from the landfill. Direct readings were performed at emissions sources using a flame ionization detector (FID) and a photoionization detector (PID). This program indicated that significant quantities of methane were present at all ventilation points (i.e., manholes and wellheads). The highest readings on non-methane organic compounds recorded on the PID were obtained in the vicinity of manholes 1 and 2.

Three charcoal absorption tube samples were obtained in an attempt to quantify specific volatile organic compounds and their fractional contribution to the non-methane concentrations recorded. Benzene and toluene were present at levels below method detection limits; however, the holding times were exceeded for the tubes prior to analysis, which rendered the results invalid.

The third element of the air investigation was the development of a sampling grid for subsequent field surveys. Two surveys were performed using FID and PID instruments to monitor on-site manholes, monitoring wells, and the leachate lagoons. These surveys indicated the presence of total volatile organic compounds at concentrations ranging from 0 to 40 ppm with the FID, and 0 to 10 ppm with the PID.

B&V recommended that additional air quality data be collected to more specifically identify and quantify emissions from the site, and to comprehensively evaluate the level of risk. They also suggested that additional parameters be analyzed to determine the full spectrum of contaminants present.

#### H. Summary of Selected Remedial Alternative

After review of the RI/FS report prepared by B&V, together with input from other regulatory agencies and the general public, the USEPA and NJDEP jointly selected a Remedial Action Plan for the FLR Landfill site. The Record of Decision (ROD) presented the evaluation and selection of remedial alternatives. The selected remedy for the FLR landfill site includes the following remedial activities, which form the basis for the design and construction program.

- Construction of a synthetic membrane and clay composite cap;
- Construction of a circumferential soil/bentonite slurry containment wall;
- Construction of an upgradient groundwater interceptor system;
- Construction of a new stormwater management system;
- Leachate extraction and treatment at a publicly-owned treatment works (POTW) or eventually the BCRRC;
- Gas Collection and Treatment;
- Removal and disposal of lagoon liquids and sediments; and other surface debris;
- Construction of a partial fence with warning signs; and
- Supplemental sampling of groundwater, surface water, and sediments during design.



## I. Design Phase

The implementation of the design was conducted by Acres International Corp. of Buffalo, New York (ACRES). The design contract was awarded on December 29, 1987. Acres was authorized to proceed with the X-464 Term Engineering Design Services Contract (site specific contract S88127) for the Florence Land Recontouring Landfill (FLR) remediation project.

The S88127 Design Contract identified the major remedial elements for the project, which included but were not limited to the following:

- Construction of a synthetic membrane and clay cap over the entire landfill in accordance with USEPA RCRA guidelines.
- Construction of a circumferential soil-bentonite containment wall.
- Construction of an upgradient groundwater interceptor system to reduce hydrostatic head on the slurry wall.
- Construction of a surface water management system including extensive grading to improve slopes and revegetation.
- Construction of a leachate extraction and handling system.
- Decommissioning the lagoons including removal and disposal of liquids, bottom sediments and miscellaneous surface debris.
- Construction of a fence with warning signs.
- Development and implementation of monitoring plan.

The design services contractor was required to perform defined tasks that would result in the preparation of plans, drawings, specifications, and bid documents for the construction/cleanup remedial activities.

The defined task assignments for the FLR Design Contract are listed below:

BASIC SERVICES

- Task 1 - Pre-Design Planning and Project Development
- Task 2 - Investigations for Development of Design Criteria
- Task 3 - Preliminary Design
- Task 4 - Final Design

REQUIRED ADDITIONAL SERVICES

- Task 5 - Property and Field Surveying
- Task 6 - Bidding Phase Assistance
- Task 7 - Community Relations

ADDITIONAL SERVICES REQUIRING PRIOR AUTHORIZATION

- Task 8 - Resident Engineering
- Task 9 - Design Services during Construction
- Task 10 - Startup and Training
- Task 11 - Other Engineering Services

Under the X-464 Design Contract, Acres conducted additional investigation work. During the Autumn of 1988, soil borings were taken around the perimeter of the landfill (spaced 100 feet apart, and sampled at 5 foot intervals) to develop sufficient subsurface information for the perimeter slurry wall design. In addition, a slurry wall mix design study was done to determine the optimum soil/bentonite ratio that would achieve the desired permeability ( $1 \times 10^{-7}$  cm/sec).

A two phase Interim Monitoring Program was conducted that involved the sampling and chemical analysis of the groundwater, surface water, stream sediment, and air. The first round of sampling was performed in Spring 1989, and the second round was performed in August 1989.

Because this project utilized Federal Grant funding, an Archaeological Survey was required to investigate whether significant historical and prehistorical archaeological sites would be impacted from any proposed construction activities. In July 1988, a Stage 1A

study was conducted to define areas of archaeological sensitivity and to identify documented historical and archaeological resources. During May and June 1988, the Stage IB and II studies were performed, and involved field investigations (auger holes and test pits). The conclusions of these investigations were: "No potentially significant archaeological remains were identified within the proposed FLR Landfill project area."

Acres also investigated the soil conditions on site and possible local sources for materials that would meet the specifications for the multi-layer cap. During the Design phase, Acres developed the landfill gas collection and transfer system, the electrical & mechanical systems for both the leachate extraction system and the collection control building.

The original budget for the Remedial Design was \$1,291,300. With the addition of contract modifications and amendments, the actual cost of the Remedial Design was \$1,219,972.39.

#### Remedial Design Budget Summary

<u>Task</u>	<u>Description</u>	<u>Original Contract Amount</u>	<u>Actual Cost</u>
1	Planning	\$ 113,717.00	\$ 113,717.00
2	Investigation	795,358.00	
	Change Order #1	(62,164.00)	
	Change Order #2	40,600.00	
	Change Order #3	47,653.41	
	Subtotal	821,447.41	580,843.33
3	Preliminary Design	114,495.00	114,495.00
4	Final Design	144,871.00	144,871.00
	Claim Settlement	126,768.22	126,768.22
5	Surveying	95,888.00	95,888.00
	Change Order #4	22,200.00	22,200.00
6	Bid Phase Assistance	16,265.00	16,265.00
7	Community Relations	10,706.00	4,924.84
	Total Task 1-7	\$ 1,466,357.63	\$ 1,219,972.39

## J. Construction Phase

This report includes all items of interest pertaining to the construction phase of the Florence Land Recontouring landfill project.

The ACRES design for the FLR project was completed and competitively bid for construction in March, 1991. Three addenda were issued on May 14, May 24 and June 25, 1991 respectively. The construction contract bids were opened on June 25, 1991.

On November 12, 1991, the construction contract A49921 was awarded to Tricil Environmental Response, Inc. in the amount of \$16,942,688.57.

On October 7, 1991, Acres International Corporation was awarded a waiver of advertising for \$2,055,881 to perform the resident Engineering/Construction oversight during the construction period.

### III. CONTRACTOR PROCUREMENT

#### A. Construction Contractor

The State of NJ issued the Invitation for Bid (IFB) #R24676 in March 1991. The bid mailing consisted of three volumes, a set of Contract Drawings, and a set of Mandatory Submission Forms. Volume 1 specified the Terms and Conditions, Volume 2 specified the Technical Specifications, and Volume 3 provided backup documentation of previous site investigations.

The interested bidders were required to submit a completed price schedule for unit price and lump sum items, the total of which was the bid price for the complete remedial construction work at the FLR Landfill. The lowest total price and responsive bidder would be awarded the Construction Contract.

The mandatory site inspection took place on April 15, 1991 at 9:30 A.M. The mandatory bidders conference took place on April 15, 1991 at 1:00 P.M. The bidders conference was held at the Princeton Pike Office Park, Lawrenceville, NJ. Two (2) optional site inspections were made available to bidders on April 22 and May 22, 1991 provided that the bidders attended the first mandatory site inspection. Three addendum were issued by letter on May 14, May 24 and June 5, 1991 respectively. The Bid Opening was originally scheduled for May 30, 1991 but was changed to June 25, 1991 by addendum. On June 25, 1991 the bids were opened. Eight bids were received as follows:

1.	Chemical Waste Management, Inc.	\$15,996,370.04
2.	Tricil Environmental Response, Inc.	\$16,942,688.57
3.	Conti Construction Co, Inc.	\$19,888,891.00
4.	Anselmi and DeCicco, Inc.	\$20,276,390.00
5.	Halliburton, Inc.	\$21,895,656.00
6.	Sevenson, Inc.	\$22,849,300.00
7.	Ebasco Construction Co., Inc.	\$24,396,432.00
8.	AWD Technologies, Inc.	\$25,211,071.00

The Bid Evaluation Committee recommended the Tricil Environmental Response, Inc. be given the award since Chemical Waste Management, Inc. was considered non responsive in several areas. After protest by another bidder (Conti) was resolved the A49921 Construction Contract for \$16,942,688.57 was executed on November 12, 1991.

Tricil's Contract included the following approved subcontractors:

- |     |                                   |  |
|-----|-----------------------------------|--|
| 1.  | Remediation Inc.                  | Metal Building<br>Supply and<br>Installation |
| 2.  | Lord, Anderson, Warrell & Barnett | Engineering and<br>Survey                    |
| 3.  | Moretrench Environmental Services | Monitor Well<br>Construction                 |
| 4.  | W.T. Welding Co.                  | Welding                                      |
| 5.  | A. Reginatto Consulting Engineers | On-Site Soils<br>Testing                     |
| 6.  | Empire Soils Investigations       | Well Drilling                                |
| 7.  | The Liner Co.                     | Liner Supply and<br>Installation             |
| 8.  | Palco Linings, Inc.               | Liner Supply and<br>Installation             |
| 9.  | Elcor Electric Co.                | Electrical                                   |
| 10. | Woolston Construction Co.         | Borrow Fill<br>Supplier                      |
| 11. | Certified Testing Labs Inc.       | Analytical Testing                           |
| 12. | D.T. Allen Construction Co.       | Site Excavation                              |

The above noted subcontractors were approved for use on the FLR Project but #3,4,7,10,11 and 12 were not utilized. During the course of the project additional subcontractors were added and utilized as follows:

- |     |                                |                           |
|-----|--------------------------------|---------------------------|
| 1.  | Cashins & Associates           | Air Monitoring            |
| 2.  | Remedial Solutions             | Clear & Grubbing          |
| 3.  | J.M.S. Company                 | Site photography          |
| 4.  | Field Force                    | Field Office<br>Equipment |
| 5.  | Anchor Fencing                 | Fencing                   |
| 6.  | A.J.R. Enterprises             | Leachate Disposal         |
| 7.  | Geo-Con Inc.                   | Slurry Wall               |
| 8.  | I.E.A.                         | Analytical Testing        |
| 9.  | American Guard Services        | Guard Service             |
| 10. | Pennsbury Landscaping, Inc.    | Site Seeding              |
| 11. | A.C. Schultes, Inc.            | Manhole Cleaning          |
| 12. | Barry Marine, Inc.             | Manhole Cleaning          |
| 13. | MacFarlane Construction Ltd.   | Bridge Construction       |
| 14. | Golder Assc. Inc.              | Geotech. Testing          |
| 15. | Gaul Construction Inc.         | Steel Construction        |
| 16. | C.H. Schwertner & Son, Inc.    | Concrete                  |
| 17. | Cooper Road Construction, Inc. | Paving                    |

## **B. Engineering Contractor**

Acres was issued a Waiver of Advertising to the Term Design X-464 FLR Engineering Contract to perform the Engineering and Construction Management Services during the Florence Land Recontouring Landfill (FLR) remediation project. The Waiver included work under Task 8 (resident engineering/construction supervision), Task 9 (design services during construction), and Task 10 (start-up & training services) of the original Design Contract.

On September 27, 1991 the Bureau of Construction submitted the Waiver of Advertising request to secure the services of Acres for Tasks 8, 9 and 10 of the X-464 Contract. The Waiver was based on the August 19, 1991 Florence Land Recontouring Landfill Construction Oversight Manhour and Cost Proposal Revisions prepared by Acres. A Contract Modification for \$120,000 to the original Waiver request of \$2,055,881 was issued to Acres on October 7, 1991 to ensure Acres would be capable of performing Construction Management services at the time the remediation Construction Contract was awarded. The Remedial Construction Contract was formally executed on November 12, 1991. The entire Acres' Waiver of Advertising for \$2,055,881.00 was approved on January 8, 1992 (contract X-464/S88127, purchase order #P33987).

The responsibilities of the Engineer during the remedial construction phase were identified in the Waiver package, the Construction Supervision Agreement, the X-464 FLR Design Contract (Tasks 8, 9, & 10), and the construction remediation contract (A49921). These responsibilities included, but were not limited to, inspecting the construction contractor's work for acceptance, monitoring the construction schedule, maintaining project documents, interpreting the design and the scope of work, and reviewing and accepting the required submittal information furnished by the Construction Contractor.

The construction management services under Task 8 and 9 included providing sampling analysis (chemical and geotechnical), survey verification, photographs of construction, As-Built drawings and the Operations & Maintenance Manual.

The Engineer also assisted the DEP in developing Field Orders and Design Changes, negotiating contract modifications, and supporting community relations programs.

#### IV. STAFFING DOCUMENTATION

##### A. CONSTRUCTION CONTRACTOR

The Construction Contractor, Tricil Environmental Response Inc., (Tricil) had to staff the project adequately to perform the work in accordance with the Contract Specifications.

Tricil maintained the following management positions on this project: 1) Project Manager; 2) Project Engineer; 3) Quality Control Officer; 4) Site Supervisor; 5) Health and Safety Officer; 6) Field Foremen and 7) 1 Union Senior Operating Engineer. Tricil maintained an average of 7 management employees throughout the project but during the first five months of the project, up to 10 management personnel could be present.

Normally, 1 Supervisor, 2 foreman, and 1 senior operating engineer oversaw all phases of construction.

Tricil employed union laborers, operating engineers, and teamsters (through Geo-Con Inc., the slurry wall subcontractor), electricians, mechanics, concrete masons, plumbers and steel workers to construct this project. Of the unionized labor force, up to 40 persons were present on the site at any given day, however typically the total number of individuals totaled about 25.

Tricil was responsible for furnishing the following documentation:

- Quality Control Reports
- Air Monitoring Log Reports
- Weather Station Reports
- Equipment Listing
- Personnel Roster and H&S Certifications
- Documentation required to complete invoices for payment
- Operation and Maintenance Manuals
- Equipment Warranties
- Construction and Occupancy Permits
- Updated Schedules
- All Contract Modification documentation

##### B. ENGINEERING SERVICES

###### *Field staff*

Acres maintained a full time field staff consisting of a resident Project Representative (RPR) with overall authority for Acres field personnel, two (2) civil inspectors and a field office secretary. Specialists from the Acres home office were dispatched to the site on an as-needed basis. The specialists including a health & safety/environment inspector, geotechnical engineer during the slurry wall installation, a civil engineer during the



multi-layer cap construction, an electrical inspector and a mechanical inspector for the construction of the above ground leachate system and the collection control building.

The on-site field staff was responsible for the daily oversight of the construction activities, verifying the testing performed during construction and assuring the construction contractor followed the technical specifications and intent of the contract. The field staff maintained reports detailing the work performed each day, the manpower and equipment used and the weather conditions.

In addition, the Engineer issued a monthly report highlighting the status of the project. The Monthly Report included a Project Summary (General Overview of activity, Weather Conditions, Job Progress), Schedule, Construction Progress, Construction Force (Contractor, NJDEP, Acres and Acres' subcontractor), Construction Equipment, Equipment and Materials, Weather Statistics, Construction Costs (invoice summary), Claims/Change Orders, Visitors to Site, and any appropriate attachments.

Each week a project meeting was held on-site to review the progress of the work and discuss any outstanding issues. The weekly project meetings were attended by the NJDEP Construction Managers, the Acres RPR and inspectors, the remedial construction contractor (Tricil/Laidlaw) Project Manager and project management team, the geotechnical laboratory supervisor and specialty subcontractors. Minutes of the meeting were provided by the Engineer to all parties for review and comment prior to issuance of the final meeting minutes.

#### *Home office*

Acres had a team of engineers available at their Amherst, New York office assigned to the FLR Remediation project. The team was headed by the Project Manager and the Project Engineer. These representatives coordinated all the Engineer's activities related to the site and reported directly to a Vice President of the firm. The Home Office project team communicated with the on-site team daily (phone and fax) and visited the site on a regular basis, occasionally attending the weekly project meeting.

The Home Office project team included personnel from several disciplines including hydraulic engineers, civil engineers, architectural engineers, geologists, geotechnical engineers, and drafters.

The Acres Home Office team had been involved with the project during the Design Phase, and was thoroughly familiar with the original design and the planned remediation solution. The team utilized this knowledge in reviewing technical issues during the project. The Home Office team contributed to the project by reviewing and developing the Design Changes, the Field Orders and the construction contract modifications.

The engineer was responsible for reviewing the shop drawings and submittal information for all the equipment and materials and re-submittals furnished to the Engineer by the Construction Contractor.

### C. NJDEP – BUREAU OF CONSTRUCTION

The NJDEP – Division of Publicly Funded Site Remediation – Bureau of Construction was the lead Bureau for the construction phase of this project.

Construction Managers Dennis Reinknecht, Dennis Faherty and Michael Alexander were permanently assigned to the FLR Project. During the project other construction managers assisted in monitoring the Construction Contractor. NJDEP off site staffing was provided by Bureau Section Chief Thomas J. Allen.

The support Bureaus in the Division of Publicly Funded Site Remediation included, Site Management, Construct Management, Environmental Measurements and Quality Assurance, Office of Site Safety and health and the Environmental Evaluation and Risk Assessment.

The documentation provided by the NJDEP was principally provided by the Bureau of Construction staff. The Bureau of Construction routinely maintained a master log of all site activities, filed monthly reports, prepared both construction and engineering contract payment requests, negotiated and processed all contract modifications, monitored contractor schedule and was the primary contact for all site correspondence.

## **V. OPERATIONS AND SCHEDULE**

As competitively bid, the Tricil work to complete the FLR Project will include all labor, materials, equipment and all else necessary to complete the project. The work covered includes the following:

- Clearing and grubbing.
- Filling and regarding the landfill (Phase I Grading Plan) using onsite borrow material.
- Embankment adjacent to creek.
- Construction of a composite multilayer cap over the main landfill area.
- Construction of an upgradient ground water interceptor drain line.
- Construction of drainage channels, culverts, drop inlets and associated structures to control precipitation runoff.
- Installation of new leachate extraction wells and conversion of existing manholes. These penetrations in the landfill will be used for leachate extraction. Construction of an aboveground leachate collection line from each extraction point to the collection/control building.
- Construction of a gas collection system to collect gas generated in the landfill and convey it to the collection/control building.
- Construction of a collection/control building to house leachate collection tank, gas collection equipment and control system for gas, leachate and meteorological equipment.
- Riprap slope protection.
- Preparation of Health and Safety Plan (HASP), Schedule, Work Plan, Contingency Plan and other required plans.
- Removal and disposal of existing lagoon liquids and sediments.
- Removal, excavation, and filling of existing water retention pond.
- Construction of a security fence with warning signs and gates.
- Construction of a below grade leachate transfer line from the collection/control building to the BCSWFC treatment facility.
- Demolition and removal off-site of existing site structures and debris.
- Installation of new monitoring wells and piezometers for both ground water and gas sampling.
- Preservation of certain existing wells.
- Sealing of certain existing wells.
- Supply and installation of all mechanical and electrical equipment for the leachate and gas collection systems.
- Construction of a truck loading pad.
- Construction of a buried gas transfer line from the collection/control building to the BCSWFC treatment facility.
- Calibration, start-up, and initial operation of all systems associated with this project.
- Operation of all facilities for a one (1) year duration, with State's option to continue operations for up to an additional 12 months.

The following section is a month-by-month overview of activities performed and/or completed during the period. Weather conditions are included. A schedule in "bar line" format is included at the end of this section.

1. Project Summary – November 12, 1991 through April 30, 1992

A. General Overview of Activities

Tricil signed a Contract on 12 November, 1992.

Tricil began surveying on the FLR Site about mid February and began mobilizing and installing temporary services (access roads, electrical power, temporary offices, decon facilities) on 16 March. Support services, including an operational decon facility and operational field offices, were completed about 24 April. A general Notice to Proceed was issued on April 23, 1992 and Tricil commenced work within the exclusion zone and the reduction zone.

B. Weather Conditions

Weather through the winter months was below average in precipitation and above average in temperatures. March began with good weather, but the second half included five days of rain and snow, and below average temperatures.

April was a cold/damp month with temperatures averaging 10° below normal and three days of rain.

2. Project Summary – May 1992

A. General Overview of Month's Activities

- Tricil dewatered the leachate lagoons
- Disposed of seven drums
- Sealed eleven existing wells
- Removed lagoon bottom sediments
- Began moving Type B Common Fill from 80K stockpile onto landfill
- Began excavating unsuitable foundation material and replacing with I-9 material
- Continued with clearing and grubbing operations along Assiscunk Creek.

B. Weather Conditions

Weather for May was average with 4.44 inches of rainfall and temperatures ranging from 40°F to 93°F. One rainfall event was significant on the last day of the month (2 inches), but it did not impact May's schedule.

### 3. Project Summary – June 1992

#### A. General Overview of Month's Activities

- Tricil completed work at the leachate lagoons
- Backfilled and graded to the revised grading plan
- Unearthed and disposed of two drums
- Moved Type "B" – Common Fill from the 80K stockpile onto the landfill
- Progressed with the removal of unsuitable foundation material
- Began installing embankment at both the elevation 30 and the elevation 38 benches
- Began cleaning out the existing manholes
- Completed the clearing and grubbing of work areas (except fencing)
- Completed installing Sedimentation Basins "A" and "B" and installed additional silt fence
- Cast the concrete outfall for the upgradient interceptor and relocated the small tributary of the Assiscunk Creek at the base of the east slope.

#### B. Weather Conditions

June's weather was normal, with temperatures slightly below average. High temperature at site was 94°F and low temperature 43°F. Rainfall totaled 4.93 inches with two Friday rainfalls accounting for most of this.

Time lost because of weather:

June 5:	½ day
June 19:	½ day

### 4. Project Summary – July 1992

#### A. General Overview of Month's Activities

Tricil completed the following activities:

- Assiscunk Creek relocation,
- Cleaning of existing manholes,
- Excavation of unsuitable foundation material and replacement with I-9, and
- Sealing of existing monitoring wells.

Tricil continued with the following:

- Removed and disposed of four drums,
- Constructing embankments,
- Installing silt fence and hay bale erosion control devices, and

- Excavating Type "B", Common Fill from the 80K stockpile and placing it on the landfill as Phase 1 grading material.

Tricil began the following activities:

- Installation of GeoCon's slurry wall plant,
- Existing manhole repair and extension,
- Installation of the upgradient interceptor, and
- Temporary seeding and mulching.

#### B. Weather Conditions

July's weather was normal for construction conditions. The month's average temperatures were several degrees below normal. Precipitation, consisted of 4.33 inches of rainfall, registered on Tricil's site weather station. This is average for July and resulted in the following lost time:

July 23 <sup>rd</sup> :	1 day
July 31 <sup>st</sup> :	1 day

### 5. Project Summary – August 1992

#### A. General Overview of Month's Activities

Tricil completed the following activities:

- Extended four existing monitoring wells,
- Converted 15 existing wells to gas vents.

Tricil continued with the following:

- Installation of Phase I grading material (hauling Type "B" Common Fill from stockpile and installing on landfill),
- Installation of embankment.

Tricil began the following activities

- Installation of SCB Slurry Wall,
- Gas collection trench,
- Installation of Type "A" Filter Fabric on top of Phase I grading layer,
- Installation of gas collection pipeline (grid),
- Installation of 12" gas collection layer.

## B. Weather Conditions

August's weather included one wet week and normal temperatures. Rainfall for the month totaled 4.4 inches, and was received primarily during the period from 11 through 18 August. The one wet week caused approximately three days lost time; 8/14, 8/17 and 8/18.

## 6. Project Summary – September 1992

### A. General Overview of Month's Activities

Tricil continued with the following activities:

- Gas Collection System.
- Excavating and backfilling trenches
- Installing 12" coarse aggregate layer
- Installing 6", 8" and 10" Corrugated HDPE gas piping
- Installing Type "A" filter fabric beneath gas collection layer.
- Installation of Phase I grading layer – using material from gas collection trench excavation.
- Hauling in embankment material from off-site, and installing at elevation 30 bench.
- Extending existing manholes.

Tricil completed the following activities:

- Installation of SCB slurry wall.

Tricil began the following activities:

- Installation of SB Slurry Wall.

## B. Weather Conditions

The September weather was normal in both precipitation and temperature. Rainfall totaled 3.57 inches at site, but occurred, primarily, during four events which totaled 3.06 inches. The weekend of September 25<sup>th</sup> – 27<sup>th</sup> was washed out by tropical storm Danielle, and accounted for 2.04 inches of the month's rainfall. Tricil lost 3 1/2 days to weather, their subcontractor, GeoCon, lost two (2) days.

## 7. Project Summary – October 1992

### A. General Overview of Month's Activities

Tricil began the following activities:

- Test Strip – preparation only
- Installation of Gas and Leachate Transfer Lines to Burlington County
- Installation of permanent Site Fence
- Hauling Type "A" Common Fill, from Ryan Pit to site, over Temporary Panel Bridge
- Sampling of SB Wall (October 20, 1992)

Tricil continued with the following activities:

- Gas Collection System
- Excavating and backfilling gas collection trenches
- Installing 12" gas collection layering of coarse aggregate
- Installing 6" and 10" Corrugated HDPE gas piping
- Installing Type "A" filter fabric on top of the Phase I grading layer
- Extending existing manholes
- Installation of SB slurry wall
- Placement of Type "B" Common Fill (from 80K stockpile) in Phase I Grading Layer
- Installing Embankment at Elevation 30 bench

### B. Weather Conditions

October provided good weather and, consequently, good working conditions. Temperatures were seasonal, and precipitation was below normal

Days lost to weather - October 9, 1992  
- October 12, 1992

## 8. Project Summary – November 1992

### A. General Overview of Month's Activities

Tricil began the following activities:

- Installation of Geonet at test strip



Tricil continued with the following activities:

- Test strip installation progressed until clay was found to be out of specification, then aborted until comprehensive testing at the Ryan Pit is completed,
- Sampling – Shelby tubes – of the Soil-Bentonite (SB) portion of slurry wall
- Installation of gas collection trenching and gas collection piping,
- Horizontal coring of Soil-Cement-Bentonite (SCB) wall panels,
- Installing the 12" gas collection layer,
- Installation of embankment materials,
- Installation of silt fence and hay bale barriers,
- Installation of Type "B" Common Fill as Phase I Grading Layer
- Extending existing manholes on landfill,
- Installation of gas and leachate transfer lines

Tricil completed the following:

- Construction of the Slurry wall; however, further sampling and testing of the SCB wall is necessary to judge if all slurry wall work is complete.

#### B. Weather Conditions

5.97 inches of rain fell in November, mostly during the work week. The normal rainfall in November is 3.4 inches.

The normal daily mean temperature for November is 46°F. The average of the mean daily highs and the mean daily lows for November equaled 47.8°F.

### 9. Project Summary – December 1992

#### A. General Overview of Month's Activities

Tricil began the following activities:

- Installation of Piezometers on the cap
- Installation of the Collection Control Building (CCB) foundation

Tricil continued with the following activities:

- Extending existing manholes on cap
- Installing the 4" HDPE leachate transfer line
- Installing the 10" HDPE gas transfer line
- Placement of 12" gas collection coarse
- Concrete encasement of transfer lines

- Installing the up-gradient interceptor
- SCB wall coring and sampling
- Testing of SB & SCB samples for permeability

#### B. Weather Conditions

The normal rainfall for December is 3.32 inches. On December 10, 11 and 12, 1992, a strong storm dumped 5.21 inches on the site. This caused local flooding and raised water to elevation 25 ( $\pm$ ) in the floodplain of the Assiscunk Creek. All told, 6.95 inches fell in December, or about twice normal.

Temperatures for the month were normal. The average December temperature is 32.2°F. The average of the daily highs and lows was 38.6°F.

Days lost to weather	- December 10, 1992	½ day
	- December 11, 1992	1 day
	- December 14, 1992	1 day
	- December 15, 1992	1 day
	- December 16, 1992	½ day
	- December 17, 1992	1 day
	- December 18, 1992	1 day

### 10. Project Summary – January 1993

#### A. General Overview of Month's Activities

Tricil began the following activities:

- Installation and development of leachate collection wells on the cap
- Placement of rip-rap on the 2:1 slope
- HDPE lining installation of the condensate traps

Tricil continued with the following activities:

- Installing the 4" HDPE leachate transfer line
- Installing the 10" HDPE gas transfer line
- Concrete encasement of transfer lines
- Installing the up-gradient interceptor
- Testing of SB & SCB samples for permeability

## **B. Weather Conditions**

Precipitation was normal for the month, and with temperatures averaging 5°F above normal, the only snowfall of the month (2") lasted just two days on the ground. Tricil lost just one day to weather (the sixth of January).

January provided the best weather for working since October. If Tricil had had their clay source on line, the test strip could have been completed and cap work begun.

## **11. Project Summary – February 1993**

### **A. General Overview of Month's Activities**

Tricil began the following activities:

- Gas wells and groundwater monitoring wells.

Tricil continued with the following activities:

- Installation of the Collection/Control Building foundation;
- Installation and development of leachate extraction wells;
- Installation of rip-rap at 2:1 slope;
- Installation of gas transfer line;
- Installation of leachate transfer line;
- Installation of the upgradient interceptor;
- Installation of upgradient interceptor manholes; and
- Removal of the temporary bridge and access road to the Ryan Pit.
- Wet molding of SCB test samples.

Tricil completed the following activities:

- SB slurry wall for billing purposes based on completion of and results of permeability testing.
- Permeability testing of SB wall samples.

### **B. Weather Conditions**

Precipitation exceeded the normal of 2.62 inches by approximately six tenths of an inch. This was received as both snow and rain.

Temperatures averaged 31°F over the period. The mean temperature of record for February is 34°F. Therefore, temperature was below average. Approximately 21/2 days lost to weather:

2/12/93	8 hours
2/16/93	8 hours
2/22/93	½ day

## 12. Project Summary – March 1993

### A. General Overview of Month's Activities

Tricil began the following activities:

- Stabilization of unsuitable trench excavation soil.
- Clearing and grubbing alongside Cedar Lane (as required by CO #3).

Tricil continued with the following activities:

- Installation of the Collection/Control Building foundation.
- Installation of leachate extraction wells.
- Installation of gas transfer line.
- Installation of leachate transfer line.
- Installation of the upgradient interceptor.
- Rip-rap placement on 2:1 slope.
- Removal of dewatering liquid of off-site disposal.

Tricil completed the following activities:

- Disassembly and removal of the temporary panel bridge and access road to the Ryan Pit.

### B. Weather Conditions

The weather for March was definitely difficult. Precipitation totaled 5.75 inches at the site. Most of this occurred as rain, but a major snowstorm on the 13<sup>th</sup> brought activity to a halt in the entire northeast U.S.A. This storm dumped in excess of a foot of snow on the site.

Temperatures were slightly below normal for March, with the average of highs and lows equaling 40°F (Historical average for March is 42°F.)

### 13. Project Summary – April 1993

#### A. General Overview of Month's Activities

Tricil began the following activities:

- Began and completed test strip.
- Cap installation, including:
  - clay layer (24")
    - 30 mil PVC geomembrane,
    - sand drainage layer (12"),
    - type "A" common fill (18" layer),
    - topsoil layer (6"),
- geotextiles within the 6" thick cap, including Types "A" and "B" filter fabric, geonet, geogrid and erosion control matting.
- Installation of truck transfer pad (forms and reinforcing steel).

Tricil continued with the following activities:

- Construction of the Collection/Control building concrete foundation.
- Installation of the upgradient interceptor.
- Installation of rip-rap at elevation 30 bench slope.
- Installation of gas collection trench and piping.
- Installation of gas collection layer (12").
- Extending existing manholes on landfill.
- Placing 24" diameter HDPE lining inside four manholes.

Tricil completed the following activities:

- Development of all leachate wells.
- Stabilization of unsuitable trench excavation soils.

#### B. Weather Conditions

April's weather was wetter than normal. Precipitation amounted to 4.72 inches and 4.55 inches of this occurred on six days of the month. The normal April precipitation of 3.29 inches was exceeded by 43%.

The average temperature for April is 52.9°F, and the average of site highs and lows was 55.1°F. In spite of above average rainfall, Tricil managed to complete the test strip.

Tricil lost the following days to weather:

4/1/93	1 day
4/2/93	1 day
4/16/93	1 day
4/22/93	1 day

#### 14. Project Summary – May 1993

##### A. General Overview of Month's Activities

Tricil began the following activities:

- Received and partially installed the 15,000 gallon leachate tank (FRP), inside the collection/control building.

Tricil continued with the following activities:

- Cap installation, including:
  - type "A" filter fabric,
  - type "B" filter fabric,
  - clay layer (24"),
  - PVC geomembrane (30 mil),
  - sand layer (12"),
  - Type "A" common fill (18")
  - Topsoil (6" layer),
  - geonet, and
  - geogrid.
- Gas collection trenching.
- Gas collection lines.
- Gas collection layer (12").
- Phase I grading layer, Type "B" common fill, at perimeter of landfill and at elevation 30 and elevation 40 benches.
- Removal of decon water from site.
- Installation of extensions to existing site manholes. (All but two of the 11 manholes are now extended to final elevation).

Tricil completed the following activities:

- GeoCon complete demobilizing their slurry batch plant.
- Upgradient interceptor (except testing).
- Concrete work at the collection/control building (including floor slabs in electrical and storage rooms, truck transfer pad, sidewalk and concrete filled pipe bollards).

## **B. Weather Conditions**

May weather was ideal for cap installation. Tricil lost partial productivity on May 19 & 20, 1993 because of rain, but the rest of the month provided good conditions for cap construction.

The rainfall total of 1.32 inches for the month was well below the historical average of 3.35 inches.

Tricil lost the following days to weather (cap installation only):

5/19/93	1 day
5/20/93	1 day

Temperatures for the month were several degrees above the normal of 52.9°F.

## **15. Project Summary – June 1993**

### **A. General Overview of Month's Activities**

Tricil began the following activities:

- Installation of gas monitoring wells. Installed four of six gas monitoring wells.
- Installation of groundwater monitoring wells. Installed second of two groundwater monitoring wells.
- Installation of well chambers (Leachate Extraction Well 10, 11 & 12).
- Erection of collection/control building superstructure.

Tricil continued with the following activities:

- Cap installation, including:
  - Gas collection coarse aggregate layer.
  - Type "A" filter fabric,
  - Type "B" filter fabric,
  - clay layer (24"),
  - PVC geomembrance (30 mil),
  - sand drainage layer,
  - Type "A" common fill layer,
  - topsoil (6" layer),
  - geonet/geogrid.

- Gas collection trenching and lines.
- Phase I grading layer at perimeter of top of landfill and at elevation 30 bench with Type "B" common fill.
- Consolidation of waste soils (slurry, trench excavating, etc.) with cement.
- Removal of Sedimentation Basin "B": and backfill of area.
- Installation of Type "A" common fill in existing slopes outside slurry wall to provide 3:1 slopes.

Tricil completed the following activities:

- Installation of extensions of existing site manholes.

#### B. Weather Conditions

The weather for June was good for construction activity. Tricil lost some productivity on cap installation on each of two days because of overnight rainfall, but not enough to record.

Rainfall totaled 2.17 inches for June at the site. This is below the historical average for June of 3.70 inches.

Temperatures for the month were above the average of 72.3°F by 3 ½ degrees at 75.9°F.

### 15. Project Summary – July 1993

#### A. General Overview of Month's Activities

Tricil began the following activities:

- Electrical installation at the collection/control.
- Deactivation of Sedimentation Basin "A".

Tricil continued with the following activities:

- Cap installation, including:
  - Gas collection coarse aggregate layer,
  - Type "A" filter fabric,
  - Type "B" filter fabric,
  - clay layer (24"),
  - PVC geomembrane (30 mil),
  - sand drainage layer,
  - Type "A" common fill layer,
  - topsoil (6" layer),
  - geonet/geogrid.



- Gas collection trenching and lines.
- Piping at the collection/control building.
- Installation of Type "A" common fill in existing slopes outside slurry wall to provide 3:1 slopes.

Tricil completed the following activities:

- Phase I grading layer using Type "B" common fill.
- Consolidation of waste soils (slurry, trench excavation, etc.).
- Removal of Sedimentation Basins "A" and "B" and backfill of areas.
- Erection of collection/control building superstructure.

#### B. Weather Conditions

The months' precipitation totaled 4.4 inches, or 0.3 inches over the historical average of 4.09".

Temperatures were well above average with the first week of July. The historical average is 76.8°F and the actual average was 81.6°F by degrees at °F. Lost time approximately two full days.

### 16. Project Summary – August 1993

#### A. General Overview of Month's Activities

Tricil began the following activities:

- Construction of concrete support bases for the structural steel support system for the leachate collection lines.
- Construction of concrete underpasses in the inspection roadway network on the cap.

Tricil continued with the following activities:

- Cap installation to include:
  - sand, 12" layer,
  - Type "A" common fill, 18" layer,
  - topsoil, 6" layer,
  - geonet,
  - geogrid,
  - Type "A" filter fabric, and
  - Type "B" filter fabric.
- Mechanical and electrical installation collection/control building.
- Finish grading of areas outside cap (stockpile area and sedimentation basin "B" areas).

Tricil completed the following activities:

- Cap installation:
  - gas collection trenching and pipe installation,
  - placement of 12" gas collection layer,
  - installation of 24" clay layer,
  - installation of 30 mil PVC liner.
- Installation of 10" HDPE gas transfer line (except testing and flushing the line, and lining of condensate traps).
- Installation of 4" HDPE leachate transfer line (except testing and flushing).

#### B. Weather Conditions

The weather continued to favor earthwork activities. The rainfall received was about average for August, but it only effected progress on five of the 26 workdays of the months.

Temperatures continued to run two or three degrees above normal. All in all, the summer's weather has been beneficial to Tricil's schedule.

## 18. Project Summary – September 1993

### A. General Overview of Month's Activities

Tricil began the following activities:

- Installing topsoil in old Sedimentation Basin "B" area.
- Hydroseeding cap slopes.
- Erecting structural steel for collection system.
- Installing 1" diameter and 3" diameter HDPE collection system.
- Installation of landfill access road.
- Installation of inspection road on cap.
- Installation of leachate collection system pumps.
- Installation of power and signal cable on cap.

Tricil continued with the following activities:

- Construction of concrete support bases for the structural steel support system for the leachate collection lines.
- Construction of concrete underpasses in the inspection roadway network on the cap.
- Cap installation to include:
  - sand, 12" layer,
  - Type "A" common fill, 18" layer,
  - geogrid,
  - geonet,
  - topsoil, and
  - Types "A" & "B" filter fabric.
- Fiberglass reinforced pipe (FRP) at moisture separator.
- Mechanical/Electrical installation in the collection/control building.
- Site drainage system – installed pipe drop PD-1.

Tricil completed the following activities:

- Testing and flushing of 4" HDPE leachate transfer line and 10" HDPE gas transfer line.
- Installed the structural steel pipe bridge.
- Dewatering (from site manholes to tanker trucks).
- Installation of Carbon Dioxide Fire Suppression System (CO<sub>2</sub> system in the collection/control building.)

## **B. Weather Conditions**

The drought ended, 8.5 inches of rain fell at site. Construction was shut down in whole, or in part, on 11 workdays of the months. Slopes were badly eroded in several areas and erosion was noted to some extent everywhere. At the end of September, cap construction was not much further along than at the end of August.

## **19. Project Summary – October 1993**

### **A. General Overview of Month's Activities**

Tricil began the following activities:

- Installation of FRP gas collection piping at pipe bridge,
- Erection of structural steel pipe bridge at Collection/Control building (also completed).
- Installation of Type "B" stone fill at drainage courses.

Tricil continued with the following activities:

- Hydroseeding cap slopes and drill seeding top of cap.
- Erecting structural steel for leachate collection system.
- Installing 1" diameter and 3" diameter HDPE collection piping.
- Installation of landfill access road.
- Installation of inspection road on cap.
- Installation of manhole and well pumps.
- Installation of power and signal cable on cap.
- Permanent fence installation.
- Electrical wiring in Collection/Control Building.
- Installation of erosion control matting.
- Topsoil placement on cap.

Tricil completed the following activities:

- Installing topsoil at Sedimentation Basin "B": area.
- Seeding of Sedimentation Basin "B" area.
- Seeding of stockpile area.
- Installation of pipe drops and culverts on cap.
- Construction of concrete support bases for the leachate collection system.
- Construction of concrete underpasses for leachate pip on cap.

Cap installation to include:

- sand, 12" layer, (rework)
- Type "A" common fill, 18" layer,
- geogrid,
- geonet, and
- Types "A" & "B" filter fabric (on cap).

**B. Weather Conditions**

Tricil decommissioned the site meteorological station on October 10, 1993. Therefore, weather is now being taken from the Philadelphia Enquirer. Rainfall in October was average for the month and temperatures were also average. The conditions for earthwork were good, except for 4 ½ days when Tricil sent their personnel home. The cap installation was completed.

**20. Project Summary – November 1993**

**A. General Overview of Month's Activities**

Tricil began the following activities:

- Demobilizing temporary facilities.
- Installing the building access road.

Tricil continued with the following activities:

- Drill seeding top of cap.
- Installation of power and signal cable on cap.
- Electrical terminations of signal and power cables at control and distribution panels on cap.
- Permanent fence installation.
- Electrical wiring in Collection/Control Building.
- Installation of erosion control matting.
- Installation of Erosion Control Matting on cap.
- Punchlist work.
- Attempting to waterproof condensate traps.
- Cleaning up site.

Tricil completed the following activities:

- Landscaping the 1.9 acres of floodplain between Assiscunk Creek and base of landfill.
- Installing grating at pipe underpasses on cap.

- Installation of signal/control cable to Burlington County from Collection/Control Building.
- Constructing bollards on transfer line easement.
- Pressure testing the HDPE lines of leachate collection system.
- Erection of carbon canister and tower at Collection/Control Building.
- Topsoil placement on cap.
- Erecting structural steel for leachate collection system.
- Installing 1" diameter and 3" diameter HDPE collection piping.
- Installation of landfill access road.
- Installation of inspection road on cap.
- Installation of manhole and well pumps.

#### B. Weather Conditions

Both rainfall and temperatures were average for November when compared with Philadelphia historical weather data. Except for a 2.1 inch rainfall on November 28<sup>th</sup>, November's weather highly favored construction activities at the site.

### 21. Project Summary – December 1993 Through April 1994

#### A. General Overview of Month's Activities

Tricil completed all contract work except for punchlist and outstanding change orders on February 28. Most of the work was completed before the two-week Christmas break. The punchlist was updated for the last time on 23 February 1994 and transmitted to the State so they could issue it to the Contractor at Substantial Completion.

Tricil began the following activities:

- Pre-commissioning – completed on February 28, 1994.
- Operation of Facility (Payment Item 1.05A). This operation commenced on February 28, 1994, the date on which Substantial Completion was achieved.
- The paving of the site access road was begun on December 1 and completed December 23, 1993.

Tricil continued with the following activities:

- Satisfaction of Punchlist Contract Work.
- Demobilization of Temporary Facilities.

Tricil completed the following activities:

- Bituminous concrete pavement at site access road.
- Inspection roadway on cap.

- Cap seeding.
- Installation of power and signal cable on cap.
- Installation of permanent fence and gates except for a segment to be left incomplete until spring 1994.
- Pre-commissioning of site systems except where pumps on cap could not be tested because of inclement weather.
- Electrical wiring in C/C Building
- Testing of CO<sub>2</sub> system in C/C Building.
- Waterproofing of condensate traps on gas transfer line.
- Tricil acquired a Certificate of Occupancy for the C/C building on March 16, 1994.
- Installation of Type A and Type B stone fill for roadside drainage ditches and at drainage structures.

#### B. Weather Conditions

The Tricil Site meteorological station operated intermittently during the period from December 1993 through April 1994. The weather from December 2 through December 23, 1993 was temperate. At that juncture, the weather conditions deteriorated and the worst sinter in 20 years provided very bad conditions for completing Contract Work, and for commissioning the site systems. The quantity of snow, combined with several severe ice storms, and well below normal temperatures in January and February, caused the problem.

### 22. Project Summary, May 1994 – August 1994

#### A. General Overview of Activities

Tricil completed all outstanding punchlist items required to reach final completion. Tricil reached final completion on August 19, 1994. The operation and maintenance phase of the FLR landfill was completed on February 28, 1996.

## VI. COST SUMMARY/BUDGET ANALYSIS

### A. CONSTRUCTION CONTRACTOR

The Construction Contract A49921 was awarded on November 12, 1991 to Tricil Environment Response, Inc. (Tricil) aka Laidlaw Environmental Services, Inc. (Laidlaw) of Houston, Texas. Tricil was solicited through an open competitive procurement and engaged to perform the remedial construction with a total cost of \$16,942,688.57.

During the course of the FLR Remediation Project fifty-four (54) Construction Contract modifications were developed and implemented. Attachment 1 contains a summary and descriptions of each of these modifications. The total cost increases authorized to the contract as a result of these fifty-four (54) modifications was \$783,713.65.

Description	Contract Amount Authorized	Actual Invoiced Amount <del>(Less retainage)</del>
Original Contract	\$16,942,688.57	\$15,812,870.17
Contract Modification	783,713.65	587,855.18

The NJDEP withheld \$898,655.00 in retainage throughout the construction period of the FLR Landfill Project. Please find attached an As-built Invoice Summary (Attachment II) which tracks all line items and change orders related to the Laidlaw Contract and summarizes amounts invoiced, quantities used and total billing by line item in accordance with the A42991 Contract.

On July 15, 1997 the NJDEP Division of Publicly Funded Site Remediation and Laidlaw Environmental Services, Inc. reached agreement on final contract settlement, release of claims, and final retainage release for the Florence Land Recontouring Landfill Project. Laidlaw accepted a final sum of \$600,000 in retainage release as the final payment under this contract, waiving any rights to additional retainage, claims or additional costs incurred under this contract. The following table shows how this final retainage settlement of \$600,000.00 was derived.

1.	Total Retainage Amount Withheld	\$898,665.00
2.	Acceptance of the NJDEP slurry wall claim offer	62,759.71
3.	Acceptance of final cost proposal for pump clean out	13,405.68
4.	Acceptance of responsibility for additional special damages	(330,145.84)
5.	Acceptance of responsibility Saturday and Holiday Costs	(44,684.55)
	Final Retainage Release Settlement Amount	\$ 600,000.00

This final settlement offer was reached after several years of negotiation between the NJDEP and Laidlaw. All related documentation including the retainage release invoice



are included within this report as Attachment III. At the conclusion of the final contract settlement and retainage release the total project cost is as follows:

**Total Construction Contract Cost**

1.	Original Contract Invoiced Amount	\$15,812,870.17
2.	Contract Modification Invoiced Amount	587,855.18
3.	Retainage Release Amount	600,000.00
	Total Construction Contract Cost	\$17,000,725.35

**B. Engineering Budget/Cost Analysis**

**Development of the Budget**

The engineering and construction management work during the remedial construction phase was conducted under a cost plus fixed fee contract (Waiver to the X-464 Term Contract for Professional Engineering Services). Acres developed their budget based on the Engineer's responsibilities as outlined in the X-464 Contract, and the Construction Technical Specifications. The Bureau of Site Management, Construction and Contracts Management within the Division of Publicly Funded Site Remediation worked with Acres to develop an acceptable Task 8, 9 and 10 Budget Estimate. Prior to the commencement of the construction work, the budget amount of \$2,055,881 was approved for engineering services during construction.

The Acres budget for personnel costs was based on the manhours estimated to assure proper coverage and rapid response to the various reviews, design change requests and modifications anticipated for the entire construction schedule as specified in the Construction Contract. Each component/work task of the construction contract was evaluated. The projected hours per discipline (ie, Geotechnical, electrical, civil engineering, etc...) for specific Acres staff were calculated for each construction task. In addition to the review of submittals and assistance with the evaluation of design changes, the manhour estimates included the development of the final As-Built Drawings, the Training Manual and the Operations & Maintenance Manual. The Engineer was also responsible for the commissioning of the leachate extraction system.

Personnel costs were direct salary with a 130 % mark-up for overhead and a 10% fixed fee mark-up. An annual 5% escalation for the personnel hourly rates was allowed under the terms of the X-464 Contract.

The Budget also included the Other Direct Costs required for the completion of the job for both Home office support and Field Staff support. Home Office charges included, but were not limited to Travel, Communications, Postage and Courier Service, Reproductions and Printing, Computer/CADD, and Photographs. Field Staff charges included, but were not limited to Travel, Accommodations, Subsistence and Vehicles, Communications, Postage, Courier Service, Reproductions and Printing, Computers, Photographs and

Video, Field Office Supplies, Health & Safety Equipment and Sampling Supplies. All direct cost purchases were passed on to the State with no mark-up charge.

Acres also solicited quotes from subcontractors for each of three types of subcontract work (geotechnical analysis, chemical analysis, and survey work). The price quotes from each subcontractor were evaluated and the lowest bidder was selected for this project. The selected subcontractors were Lippincott for the geotechnical work (\$39,000.00), Lippincott (Engineering Associates, Riverside, NJ) for the survey work (\$109,304.00), and Industrial & Environmental Analysts, Inc. IEA, Inc.) for the chemical analytical services (\$77,185.00). Charges for the subcontract services were also passed directly to the State without a markup.

#### Original Budget Summary

	<u>Home Office</u>	<u>Field Office</u>	<u>Total</u>
Manhours	11,274	19,150	30,424
Direct Salary Cost	\$227,780	\$371,854	\$599,634
Overhead - 130%	296,114	483,410	779,524
Direct Costs	100,060	291,211	391,271
Subcontractors	NA	225,489	225,489
Fixed Fee	22,778	37,185	59,963
 TOTAL	 \$646,732	 \$1,409,149	 \$2,055,881

#### Actual Budget Summary

Acres invoiced the DEP on a monthly basis, and submitted a monthly summary report of the original projected manhours and costs compared to the actual manhours and costs expended for each month. The monthly budget summary report enabled the DEP and Acres to monitor the budget. Attachment IV is the last monthly manhour summary submitted by Acres with the June 1994 invoice accompanied by the Bureau of Construction invoice tracking form.

Due to project delays associated with the approval of the Work Plans, the extension of the contract time because of severe winter weather and general production delays by the contractor, the site work was not substantially completed until February 28, 1994 and finally completed by August 19, 1994. The construction schedule under the A49921 Construction Contract required that site work be completed within 640 days of contract award. The contract was executed on November 12, 1991, and the construction work should have been finished by August 13, 1993.

The Acres Budget was based on the contract schedule requirement of site work completion within 640 days. Because of the prolonged construction schedule, the original Acres Budget was insufficient to continue providing engineering services for the entire actual construction period. It became necessary for the Bureau of Construction to request additional funding to increase the Acres Budget for the project.

#### Change Order #1

Acres and the Bureaus of Construction and Contracts Management developed a budget projection to provide sufficient engineering services until Final Completion of the project. On December 28, 1993 a Verbal Approval Request (Change Order/Waiver) in the amount of \$110,000.00 was issued to Acres to continue engineering services. A second Verbal Approval Request (Change Order/Waiver) in the amount of \$119,399.00 was issued to Acres on April 25, 1994 to continue to provide to the engineering services. The formal Waiver of Advertising was approved on June 8, 1994 in the amount of \$229,399.

#### Change Order #2

A second and final contract modification was approved and executed by the NJDEP on October 7, 1997 (change order #97-016RE-72, purchase order #4123732) in the amount of \$210,000.

This contract modification/waiver of advertising in the amount of \$210,000 was for the purpose of final contract settlement for all engineering costs associated with the Florence Land Recontouring Landfill project which remained after the completion of the construction project. A complete copy of this change order package is included as part of this close out report as Attachment V.

This modification was required to compensate Acres for upgrading the pipe drop system after the failure of the original pipe drop system in the fall of 1994. Acres was responsible for the cost of the original pipe drop system including system design and construction cost. The State compensated Acres with the betterment gain from upgrading the system which is \$210,000. These are essentially the costs the State would have incurred had we requested the upgraded pipe drop system with the original design.

This modification represented the final payment for all engineering work related to the FLR Landfill Project. The following is a summary of the engineering budget.

#### Actual Budget Summary:

1.	The original contract amount	\$ 2,055,881.00
2.	Change Order #1-Contract time extension	229,399.00
3.	Change Order #2-Pipedrop upgrade	210,000.00
	Total	\$2,495,280.00

## **Attachment I**

## **CONSTRUCTION CONTRACT MODIFICATIONS**

During the course of the FLR Remediation project, fifty-four (54) construction contract modifications (change orders) were executed.

### **CO #1 (92-016-09)**

**PURPOSE:** Convert existing monitor well GM-29B to gas collection system, and furnish & install steel case riser with locking cap for monitor well GM-22.

**JUSTIFICATION:** Contract specifications deficient, GM-29B was missed during the design phase. GM-22 was specified to be sealed, but DEP decided to keep well for future monitoring. GM-22 did not have standard steel casing with cap.

**MODIFICATION AMOUNT:** \$488.75 ✓

**AMOUNT INVOICED:** \$488.75

### **CO#2 (92-016-10)**

**PURPOSE:** Furnish & install an additional 10,500 linear feet of silt fencing.

**JUSTIFICATION:** Required by the Burlington County Soil Conservation District, based on approved Soil Erosion Plan. Quantity estimate in contract specifications insufficient.

**MODIFICATION AMOUNT:** \$19,215.00

**AMOUNT INVOICED:** \$13,457.81

### **CO #3 (93-016-11)**

**PURPOSE:** Clear and grub two (2) separate areas that were not included in the original Scope of Work for this project, and dispose of the trees and brush.

**JUSTIFICATION:** Contract specifications did not include construction at these two areas. One area to be regarded to promote drainage from the cap from pipedrop #2, and the other area (the slope along Cedar Lane) is to be regarded to match the landfill when the project is complete. The Cedar Lane slope also contained larger, dying trees that could fall and damage the perimeter security fence.

**MODIFICATION AMOUNT:** \$55,072.50

**AMOUNT INVOICED:** \$55,072.50

### **CO #4 (93-016-12)**

**PURPOSE:** Authorize a \$24,250.00 reduction in the scope of work for contract line item 2.10B, "Common Fill – Type A, Other".

**JUSTIFICATION:** Revisions in grading and backfilling requirements at the lagoon area, to promote better drainage, reduces the amount of material required to backfill lagoons.

**MODIFICATION AMOUNT:** (\$24,250.00)

**AMOUNT INVOICED:** not applicable

### **CO #5 (93-016-13)**

**PURPOSE:** Relocate a tributary of the Assiscunk Creek.

**JUSTIFICATION:** Contract specifications required the construction of the landfill slope with rip-rap berm to be located on top of the tributary.

**MODIFICATION AMOUNT:** \$1,463.58

**AMOUNT INVOICED:** \$1,463.58

**CO #6 (92-016-14)**

**PURPOSE:** Increase quantity of contract line item 2.10c, "Common Fill – Type B from Stockpile" from an on-site stockpile.

**JUSTIFICATION:** Use of on-site material will limit the amount of soil to be imported to the site, leading to a savings as on-site material is less expensive than imported material.

Original quantity estimate for on-site material was low.

**MODIFICATION AMOUNT:** \$97,650.00

**AMOUNT INVOICED:** \$97,650.00

**CO #7**

**CANCELED**

**CO #8 (93-016-15)**

**PURPOSE:** Grant a sixty (60) day extension to the construction schedule.

**JUSTIFICATION:** As a result of an extended contract award protect period, the critical cap construction activities will be delayed during January and February 1993, due to winter weather conditions.

**MODIFICATION AMOUNT:** \$0.00

**AMOUNT INVOICED:** NA

**Co #9 (93-016-16)**

**Purpose:** Retrofit existing manholes #4, 6, 7, & 8 with 24" diameter, Drisco HDPE pipe with manufacturer's perforation and NJDOT specification #2 stone backfill.

**JUSTIFICATION:** The interior of four manholes were severely deteriorated. As the removal of leachate was a key component of the remediation, any damage to the manhole pumps would reduce the amount of leachate removed. As a preventative measure, the worse manholes were retrofitted with a new interior.

**MODIFICATION AMOUNT:** \$39,329.37

**AMOUNT INVOICED:** \$39,329.37

**CO #10 (93-016-17)**

**PURPOSE:** Compensate Tricil for additional work to install the gas and leachate transfer lines due to a changed site condition.

**JUSTIFICATION:** Changed site condition, the Burlington County Resource Recovery Facility stockpiled soil where the gas & leachate transfer lines were to be installed, increasing the depth of the excavation to where OSHA safety guidelines were necessary.

**MODIFICATION AMOUNT:** \$2,437.00

**AMOUNT INVOICED:** \$1,639.22

**CO #11 (93-016-18)**

**PURPOSE:** Furnish & install increased quantities required under four (4) unit price line items of the X49921 contract (SCB slurry wall, SB slurry wall, common fill – type B, & gas collection trench).

**JUSTIFICATION:** Quantity estimates in contract specifications were insufficient.

**MODIFICATION AMOUNT:** \$172,138.00

**AMOUNT INVOICED:** \$ 60,255.08

CO #12  
Combined into CO #11

CO #13  
Cancelled

CO #14  
Cancelled

CO #15 (94-016-22)

PURPOSE: Furnish & install additional Geogrid material at the seven (7) corners of the landfill and all other areas where materials are required to prevent slope failure, and provide survey crew time.

JUSTIFICATION: Contract specification re-designed the corner installations to assure that the geogrid was sufficiently anchored to prevent a failure of the slope cap at the corners.

MODIFICATION AMOUNT: \$37,122.38

AMOUNT INVOICED: \$10,473.62

CO #16 (93-016-19)

PURPOSE: Furnish & install a concrete encasement of the leachate and gas transfer lines.

JUSTIFICATION: Contract specification deficient, failed to identify a creek and headwall with winged concrete apron that was in the path of the transfer lines.

MODIFICATION AMOUNT: \$20,631.01

AMOUNT INVOICED: \$20,631.01

CO #17 (93-016-20)

PURPOSE: Permit L.E.S. (Tricil) to provide the 20 year warranty for the geomembrane.

JUSTIFICATION: The warranty finished by the manufacturer does not meet the requirements and the specifications. The contractor then assumes the warranty as per the specifications.

MODIFICATION AMOUNT: \$0.00

AMOUNT INVOICED: NA

**CO #18 (94-016-21)**

**PURPOSE:** Dewater Sedimentation Basin "B" (including the discharge of clear rain water to the adjacent stream and flocculation/discharge of silted water to an existing manhole atop the landfill), and stabilize and dispose of the remaining sediments in a designated disposal area on the landfill.

**JUSTIFICATION:** While installing the slurry wall, refuse was encountered and the contractor stopped operations. The DEP directed the contractor to resume slurry wall installation at another section of the wall. The slurry in the first excavation had dewatered and became unusable, so it was pumped to Sedimentation Basin B for storage and disposal.

**MODIFICATION AMOUNT:** \$17,810.00

**AMOUNT INVOICED:** \$17,810.00

**CO #19 (94-016-23)**

**PURPOSE:** Furnish & install RGS conduit for the signal and control cables, and additional bracing for the leachate pump control panels.

**JUSTIFICATION:** The RGS conduit will provide protection to electrical cables located beneath a high traffic area in the County Complex, subject to future expansion activities. Contract Specifications deficient, the bracing for the control panels were omitted.

**MODIFICATION AMOUNT:** \$6,456.17

**AMOUNT INVOICED:** \$6,456.17

**CO #20 (94-016-24)**

**PURPOSE:** Grant a fifteen (15) day extension to the construction schedule. March 31, 1993 has impacted the Construction Schedule. The referenced winter weather conditions were abnormal as compared to available historical weather data for the region.

**MODIFICATION AMOUNT:** \$0.00

**AMOUNT INVOICED:** NA

**CO #21 (94-016-25)**

**PURPOSE:** Abandon (seal) well GM-39 in accordance with the appropriate NJDEP Regulations NJAC 7:9 - 7, 8, 9.

**JUSTIFICATION:** Well GM-39 was blocked with material and rendered useless.

**MODIFICATION AMOUNT:** \$6,895.04

**AMOUNT INVOICED:** \$6,424.70

**CO #22 (95-016-25)**

**PURPOSE:** Furnish & install a support stand for the flow meter and upgrade "support 2" of the gas transfer system.

**JUSTIFICATION:** Contract specifications deficient in identifying adequate support for gas pipe and flow meter.

**MODIFICATION AMOUNT:** \$6,895.04

**AMOUNT INVOICED:** \$6,424.70



CO #22 (95-016-26)

PURPOSE: Furnish & install a support stand for the flow meter and upgrade "support 2" of the gas transfer system.

JUSTIFICATION: Contract specifications deficient in identifying adequate support for gas pipe and flow meter.

MODIFICATION AMOUNT: \$1,542.51

AMOUNT INVOICED: \$1,542.51

CO #23 (94-016-27)

PURPOSE: Removal and store leachate from the FLR landfill manhole #8 for five months (May through September 1993).

JUSTIFICATION: Above average precipitation during winter, open gas collection trenches and slurry wall have combined to increase quantity of leachate material in landfill. Leachate seeps observed on east slope have indicated potential for slope failure. Removal of leachate will help reduce hydraulic head on eastern slope.

MODIFICATION AMOUNT: \$68,108.26

AMOUNT INVOICED: \$57,378.24

CO #24 (94-016-28)

PURPOSE: Provide an explosion proof motor operated shutter at exhaust fan (Mark E3) in lieu of the non-explosion proof motor originally specified by contract.

JUSTIFICATION: Contract specification deficient, incorrectly identified non-explosion proof motor for use inside collection control building.

MODIFICATION AMOUNT: \$934.50

AMOUNT INVOICED: \$934.50

CO #25 (94-016-30)

PURPOSE: Furnish & install additional quantity of Erosion Control Matting (ECM) to ensure all of the 3:1 slopes are protected from the top of slope to the 6" Topsoil Limit.

JUSTIFICATION: Contract specifications deficient, only half the slope identified on Drawings as required ECM material. Contract quantity estimate based on incorrect drawings.

MODIFICATION AMOUNT: \$55,063.80

AMOUNT INVOICED: \$55,063.80

CO #26 (94-016-29)

PURPOSE: Decrease the scope of line item #13.02 "Meteorological Station".

JUSTIFICATION: During the project a "temporary meteorological station" was used. DEP decided that the "permanent" meteorological station, as specified in the contract, was not needed during the Operations & Maintenance phase. Costs associated with operating the "temporary" station were deduced from the line item and paid to Tricil. The remaining amount of line item #13.02 will be credited to the State.

MODIFICATION AMOUNT: (\$25,654.26)

AMOUNT INVOICED: NA

**CO #27 (94-016-31)**

**PURPOSE:** Furnish and install eight (8) piezometers along with eastern slope of the landfill.

**JUSTIFICATION:** In response to the build-up of hydraulic pressure on the eastern slope, piezometers were installed to relieve the pressure and serve to monitor the leachate levels at the base of the slope near where the clay cap ties into the slurry wall.

**MODIFICATION AMOUNT:** \$6,215.80

**AMOUNT INVOICED:** \$6,215.80

**CO #28 (94-016-32)**

**PURPOSE:** Furnish and install a large Carbon Filter unit with supporting steel structure to the leachate storage tank exhaust pipe.

**JUSTIFICATION:** In order to reduce the sampling requirements and associated costs of the air permit, a larger carbon unit was substituted for the carbon system identified in the contract specifications.

**MODIFICATION AMOUNT:** \$14,485.80

**AMOUNT INVOICED:** \$14,485.80

**CO #29 (94-016-33)**

**PURPOSE:** Substitute a stone rip-rap discharge channel at pipe drop PD-4 for the concrete energy dissipater shown on drawing 8390C-28.

**JUSTIFICATION:** The creek slope beneath pipedrop PD-4 was not as steep as identified in the contract drawings. Placement of large rip-rap instead of the construction of the concrete spillway as specified, saved construction costs and maintenance costs while achieving the same performance.

**MODIFICATION AMOUNT:** \$15,660.50

**AMOUNT INVOICED:** \$15,660.50

**CO #30 (94-016-34)**

**PURPOSE:** Substitute three 5 h.p. explosion proof motors at leachate transfer pump for three 7.5 H.P. motors specified in contract.

**JUSTIFICATION:** Contract specifications deficient, failed to require explosion proof pumps within Collection Control Building.

**MODIFICATION AMOUNT:** \$1,943.55

**AMOUNT INVOICED:** \$1,943.55

**CO #31 (94-016-35)**

**PURPOSE:** Furnish & install additional quantity of line item 2.18B "Geogrid Type B material".

**JUSTIFICATION:** Quantity estimates in contract specifications were insufficient.

**MODIFICATION AMOUNT:** \$12,915.00

**AMOUNT INVOICED:** \$ 4,425.79

**Co #32**

**Not Required**

**Co #33 (94-016-37)**

**PURPOSE:** Furnish and install one (1) gas trench dewatering sump in northwest corner of landfill cap.

**JUSTIFICATION:** Due to the high level of leachate in the northwest corner of the cap, the gas collection system (perforated pipe) could not function. The dewatering sump allowed for the monitoring of the leachate level and the removal of leachate below the gas system piping to promote the flow of landfill gas to the gas transfer pipe system.

**MODIFICATION AMOUNT:** \$1,357.26

**AMOUNT INVOICED:** \$1,357.26

**CO #34 (95-016-38)**

**PURPOSE:** Extend the tops of the upgradient interceptor manholes #3, 5, 6, 7, 8, 9 & 10.

**JUSTIFICATION:** The flat topography of the upgradient interceptor area was regraded to promote drainage of surface water away from the landfill. The original manholes were constructed to be near flush to the surrounding grade. As the grade was increased, the height of the manholes had to be increased to prevent sediment from entering the manholes.

**MODIFICATION AMOUNT:** \$13,466.20

**AMOUNT INVOICED:** \$13,446.20

**CO #35 (94-016-39)**

**PURPOSE:** Compensate Tricil for additional costs required to seal well GM-39 (CO #21)

**JUSTIFICATION:** The quantity of hours and materials identified in Contract Modification 94-016-25 (CO #21) were exceeded during the work to seal well GM-39.

**MODIFICATION AMOUNT:** \$932.40

**AMOUNT INVOICED:** \$932.40

**CO #36 (95-016-40)**

**PURPOSE:** Furnish & Install 1.) heat tracing and insulation of the carbon filter canister and vent piping and 2.) electrical grounding of the structural steel support system for the leachate collection piping.

**JUSTIFICATION:** The heat tracing and insulation will prevent the condensation within the carbon canister from freezing in the winter, possible damaging the piping system.

The electrical grounding of the steel support structure was omitted from the original design.

**MODIFICATION AMOUNT:** \$11,392.02

**AMOUNT INVOICED:** \$11,392.02

**CO #37 (95-016-41)**

**PURPOSE:** Construct a 10 ft. wide by 100 ft. long earthen drainage channel from culvert C2/pipedrop PD2.

**JUSTIFICATION:** The existing drainage ditch was inadequate for proper storm water management.

**MODIFICATION AMOUNT:** \$3,328.39

**AMOUNT INVOICED:** \$3,328.39

**CO #38 (95-016-42)**

**PURPOSE:** Furnish & install motorized controls for damper Mark GDA-2 located in the Collection Control Building storage room.

**JUSTIFICATION:** Original design did not include mechanism for automatic closure of damper when Carbon Dioxide (CO<sub>2</sub>) fire suppression system was activated. An open damper during a CO<sub>2</sub> release would result in the loss of CO<sub>2</sub> and reduce the effectiveness of the fire suppression system.

**MODIFICATION AMOUNT:** \$2,398.97

**AMOUNT INVOICED:** \$2,398.97

**CO #39 (94-016-43)**

**PURPOSE:** Furnish two (2) and install one (1) pressure switch for leachate extraction system in manhole #9.

**JUSTIFICATION:** The specified pressure switch was insufficient for the actual field pressure in manhole #9. The second switch was a spare for future maintenance.

**MODIFICATION AMOUNT:** \$758.74

**AMOUNT INVOICED:** \$758.74

**CO #40 (95-016-44)**

**PURPOSE:** Reconstruct the expansion loops for the leachate transfer lines on the landfill cap.

**JUSTIFICATION:** The specified expansion loops were insufficient to allow for expansion during hot weather. As the line expanded, there was a possibility that the lines would push themselves off the steel support which may damage the line. The cleanout flanges were slightly elevated which would permit leachate to collect. In cold weather the leachate could freeze and block the flow of additional leachate.

**MODIFICATION AMOUNT:** \$13,585.81

**AMOUNT INVOICED:** \$13,585.81

**CO #41 (94-016-45)**

**PURPOSE:** Install a stone drain beneath the access road ramp and rip-rap on the slope of the access road.

**JUSTIFICATION:** The specifications failed to include an avenue beneath the access road for the precipitation that drained from the sand drainage layer/geonet. Eventually erosion would impact the access road without a way to drain the precipitation from beneath the roadway. The specifications required the access road slope to be topsoiled and vegetated. As the access road slope was 2H:1V, it would be difficult to establish vegetation and to maintain the vegetation. Rip-rap was utilized on the other 2H:1V slopes at the landfill, and was less costly than the topsoil and vegetation as originally specified.

**MODIFICATION AMOUNT:** \$10,846.49

**AMOUNT INVOICED:** \$10,846.49

**CO #42 (95-016-46)**

**PURPOSE:** Furnish & install two (2) 90 degree bends in the collection control building's exhaust fan ducting.

**JUSTIFICATION:** The specifications did not provide sufficient space along the side of the leachate collection tank to allow passage of an individual, as per the requirements of the DCA Occupancy Permit.

**MODIFICATION AMOUNT:** \$475.21

**AMOUNT INVOICED:** \$475.21

**CO #43 (94-016-47)**

**PURPOSE:** Furnish & install 73 pipe anchors on the one inch leachate extraction lines.

**JUSTIFICATION:** The specifications did not prevent the one inch line from "snaking" off the support steel during hot weather, when the leachate line expanded, which could damage the line and reduce the flow of leachate material.

**MODIFICATION AMOUNT:** \$1,846.92

**AMOUNT INVOICED:** \$1,846.92

**CO #44 (94-016-48)**

**PURPOSE:** Furnish & install 1) additional lengths of horizontal steel and 2) additional lengths of horizontal and vertical steel supports for the leachate line support structure.

**JUSTIFICATION:** The quantity estimate in the specifications were insufficient. The quantity was based on aerial photographs not an actual field survey, and the specifications did not state the maximum distance requirement between the manhole and the support steel.

**MODIFICATION AMOUNT:** \$4,744.13

**AMOUNT INVOICED:** \$4,744.13

**CO #45 (94-016-49)**

**PURPOSE:** Furnish & install 1) leachate gland seal wiring on the leachate transfer pump, 2) pressure relief vents in the Collection Control Building and 3) liquid removal from BCRRC wet well.

**JUSTIFICATION:** The fluid level monitoring switch was not referenced in the specifications, but was recommended by the manufacturer to warn when the liquid is low to prevent damage to the transfer pump.

**MODIFICATION AMOUNT:** \$3,605.42

**AMOUNT INVOICED:** \$3,605.42

**CO #46 (94-016-50)**

**PURPOSE:** Install 3H:1V shoulder slopes along select sections of the inspection road.

**JUSTIFICATION:** DOT requires that elevated roadways with a 2H:1V slope have a guiderail for safety. Instead of installing the guiderails, these slopes were modified to be 3H:1V to be in compliance with the DOT regulations.

**MODIFICATION AMOUNT:** \$3,911.60

**AMOUNT INVOICED:** \$3,911.60

CO #47

Combined into CO #45

CO #48 (95-016-52)

PURPOSE: Furnish & install additional supports for the fiberglass reinforced pipe gas transfer piping.

JUSTIFICATION: The specifications did not adequately support the fiberglass reinforced pipe.

MODIFICATION AMOUNT: \$4,990.03

AMOUNT INVOICED: \$4,990.03

CO #49

Combined into CO #64

CO #50 (94-016-54)

PURPOSE: Furnish & install stone backfill around and beneath 10' horizontal discharge segment of pipe drops PD3 & PD4.

JUSTIFICATION: The specifications did not permit proper drainage of surface run-off around the bottom sections of these two pipedrops.

MODIFICATION AMOUNT: \$7,812.05

AMOUNT INVOICED: \$7,812.05

CO #51

Cancelled

CO #52 (96-016-54)

PURPOSE: Furnish & install 11 start/run modules (three wire control boxes) for the leachate extraction systems.

JUSTIFICATION: The specifications were inconsistent with the contract drawings. The contract drawings indicated three wire control boxes, but the specifications required modules that had a six wire control box.

MODIFICATION AMOUNT: \$2,948.84

AMOUNT INVOICED: \$2,948.84

CO #53 (95-016-57)

PURPOSE: Raise the electrical control panel and terminal box at leachate extraction well #10.

JUSTIFICATION: Leachate extraction well #10 (LEW #10) is located near culvert and pipedrop PD4, in the point of the south east corner of the landfill. When culvert and pipedrop PD4 were blocked with snow and ice, precipitation backed up and ponded around the electrical control panel at LEW #10. Raising the panel and terminal box will prevent damage to these electrical systems from ponded water.

MODIFICATION AMOUNT: \$1,546.50

AMOUNT INVOICED: \$1,546.50

CO #54

Combined into CO #45

CO #55 (94-016-59)

PURPOSE: Furnish & install an electrical unit heater in the storage room for the collection control building.

JUSTIFICATION: The specifications did not include a heater for the storage room. The storage room is used to store the various spare parts, including sensitive electrical equipment. This room will also serve as a work station for Operation & Maintenance inspectors.

MODIFICATION AMOUNT: \$1,237.56

AMOUNT INVOICED: \$1,237.56

CO #56 (94-016-60)

PURPOSE: Furnish & install 1) additional cable for flowmeters FE 300 and FE 102 and 2) vacuum relief holes for the leachate transfer pipe within the leachate storage tank.

JUSTIFICATION: The length of cable for the flowmeters referenced in the specifications was insufficient. The specification for the leachate storage tank did not include any mechanism for preventing a vacuum in the line could cause the leachate to siphon from the cap into the tank, overflowing the tank.

MODIFICATION AMOUNT: \$881.19

AMOUNT INVOICED: \$881.19

CO #57 (95-016-61)

PURPOSE: Furnish & install 2 exit signs in the collection control.

JUSTIFICATION: The specifications were deficient, as they only required exit signs for 2 of the 4 doors in the collection control building. The DCA and local building codes require that all doors have an exit sign.

MODIFICATION AMOUNT: \$676.71

AMOUNT INVOICED: \$676.71

CO #58

Combined into CO #56

CO #59

Cancelled

CO #60 (94-016-55)

PURPOSE: Finish & install a second motor operator at MDA-3 in the collection control building leachate storage tank room.

JUSTIFICATION: The specifications were deficient. The specifications required one motor assembly to close the damper in the event of the fire suppression system was activated. The larger damper actually required two motor assemblies to close it.

MODIFICATION AMOUNT: \$1,318.59

AMOUNT INVOICED: \$1,318.59

CO #61

Included in final contract settlement

CO #62 (95-016-63)

PURPOSE: Increase the quantities of four line items in the bid schedule; bituminous concrete pavement, structural steel support, leachate collection 1" line and leachate collection 3" line.

JUSTIFICATION: Quantity estimates in contract specifications were insufficient.

MODIFICATION AMOUNT: \$4,923.38

AMOUNT INVOICED: \$4,923.38

CO #63 (95-016-64)

PURPOSE: Authorize additional operation and maintenance tasks.

JUSTIFICATION: Specifications did not include certain Operation & Maintenance items required by the Q&M Manual.

MODIFICATION AMOUNT: \$9,458.38

AMOUNT INVOICED: \$4,700.00

CO #64

Cancelled

CO #65 (95-016-65)

PURPOSE: Increase the quantities of four line items in the bid schedule, stone fill type A, erosion control matting, roadway and topsoil 4 inches.

JUSTIFICATION: Quantity estimates in contract specifications were insufficient.

MODIFICATION AMOUNT: \$19,309.12

AMOUNT INVOICED: \$19,309.12

CO #66,67,68,69

Cancelled

CO #70 (95-016-71)

PURPOSE: Permit Laidlaw Environmental Services, Inc. (Tricil) to provide the 20-year warranty for the Collection/Control Building instead of the manufacturer.

JUSTIFICATION: The warranty furnished by the manufacturer did not meet all the requirements of the specifications. The Contractor assumed the warranty for the missing items.

MODIFICATION AMOUNT: \$0.00

AMOUNT INVOICED: NA

CO #71

Cancelled





## **Attachment II**

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY  
DIVISION OF PUBLICLY FUNDED SITE REMEDIATION  
BUREAU OF CONSTRUCTION  
FLORENCE LAND RECONTOURING LANDFILL PROJECT  
CONTRACT: A49921  
CONTRACTOR: TRICIL ENVIRONMENTAL RESPONSE INCORPORATED

UPDATED: 03/19/97

PAGE: 1 OF 3

FILE: 123\TRICIL\ASBLT

ITE #	ITEM	UNIT	ESTIMATED QUANTITY	TRICIL UNIT PRICE BID	AMOUNT BID	INVOICE:			INVOICE TO DATE TRACKING		
						O&M Invoices INV #25 QUANTITY	INV #25 AMOUNT	TOTAL QUANTITY INVOICED	TOTAL AMOUNT INVOICED	TOTAL % PERCENT COMPLETED	TOTAL QUANTITY REMAINING
1.00	CASH ALLOWANCE	LS	1.00	\$10,000.00	\$10,000.00	0.00	\$0.00	0.01	\$94.75	0.95	0.99
1.01	MOB/DEMOB	LS	1.00	\$236,349.75	\$236,349.75	0.00	\$0.00	1.00	\$236,349.75	100.00	0.00
1.02	HEALTH AND SAFETY	LS	1.00	\$661,597.91	\$661,597.91	0.00	\$0.00	1.00	\$661,597.95	100.00	0.00
1.03	TEC - PLAN	LS	1.00	\$13,587.00	\$13,587.00	0.00	\$0.00	1.00	\$13,587.00	100.00	0.00
1.03	TEC-SILT FENCE	LF	6500.00	\$1.89	\$12,285.00	0.00	\$0.00	3718.00	\$7,027.02	57.20	2782.00
1.03	TEC-BALE BARRIER	LF	2200.00	\$2.35	\$5,170.00	0.00	\$0.00	1215.00	\$2,855.25	55.23	985.00
1.03	TEC-WATER RETENTION POND	LS	1.00	\$103,431.56	\$103,431.56	0.00	\$0.00	1.00	\$103,431.56	100.00	0.00
1.03E	TEC-STABILIZED CONST.ENTRA	LS	1.00	\$16,615.57	\$16,615.57	0.00	\$0.00	1.00	\$16,615.57	100.00	0.00
1.03F	TEC-CREEK MODIFICATIONS	LS	1.00	\$9,878.63	\$9,878.63	0.00	\$0.00	1.00	\$9,878.63	100.00	0.00
1.03	TEC-SEEDING AND MULCHING	ACRE	50.00	\$787.50	\$39,375.00	0.00	\$0.00	2.14	\$1,685.25	4.28	47.86
1.04	TEMPORARY FACILITIES	LS	1.00	\$2,816,300.00	\$2,816,300.00	0.00	\$0.00	1.00	\$2,816,300.03	100.00	0.00
1.05	OPERATION OF FACILITY 1ST Y	LS	1.00	\$121,005.00	\$121,005.00	0.83	\$100,837.50	1.00	\$121,005.00	100.00	0.00
1.05	OPERATION OF FACILITY 2ND Y	MO	12.00	\$10,083.75	\$121,005.00	12.00	\$121,005.00	12.00	\$121,005.00	100.00	0.00
1.07	ON-SITE TESTING LAB	LS	1.00	\$281,085.90	\$281,085.90	0.00	\$0.00	1.00	\$281,085.90	100.00	0.00
1.08	WASTE HANDLING & DISPOSAL	EA	30.00	\$42.92	\$1,287.60	0.00	\$0.00	13.00	\$557.96	43.33	17.00
1.08	WASTE HANDLING & DISPOSAL	EA	20.00	\$216.69	\$4,333.80	0.00	\$0.00	1.00	\$216.69	5.00	19.00
1.08	WASTE HANDLING & DISPOSAL	EA	20.00	\$216.69	\$4,333.80	0.00	\$0.00	0.00	\$0.00	0.00	20.00
1.08	WASTE HANDLING & DISPOSAL	EA	20.00	\$216.69	\$4,333.80	0.00	\$0.00	0.00	\$0.00	0.00	20.00
1.08E	WASTE HANDLING & DISPOSAL	EA	20.00	\$216.69	\$4,333.80	0.00	\$0.00	0.00	\$0.00	0.00	20.00
1.08F	WASTE HANDLING & DISPOSAL	CY	600.00	\$2.15	\$1,290.00	0.00	\$0.00	0.00	\$0.00	0.00	600.00
1.09	PERFORMANCE AND PAYMENT	LS	1.00	\$157,500.00	\$157,500.00	0.00	\$0.00	1.00	\$137,479.00	100.00	0.00
2.01	INSTALL NEW GAS MONITORIN	EA	7.00	\$1,249.50	\$8,746.50	0.00	\$0.00	6.00	\$7,497.00	85.71	1.00
2.01	INSTALL ADDITIONAL FT.OF G	FT	25.00	\$33.60	\$840.00	0.00	\$0.00	0.00	\$0.00	0.00	25.00
2.01	INSTALL NEW GROUNDWATER	EA	2.00	\$3,323.25	\$6,646.50	0.00	\$0.00	2.00	\$6,646.50	100.00	0.00
2.01	INSTALL ADDITIONAL FT.OF G	FT	6.00	\$157.50	\$945.00	0.00	\$0.00	6.00	\$945.00	100.00	0.00
2.01E	INSTALL NEW PIEZOMETERS	EA	5.00	\$1,701.00	\$8,505.00	0.00	\$0.00	5.00	\$8,505.00	100.00	0.00
2.01F	INSTALL ADDITIONAL FT.OF PI	FT	44.00	\$36.75	\$1,617.00	0.00	\$0.00	0.00	\$0.00	0.00	44.00
2.02	SEAL EXISTING MONITORING	EA	23.00	\$288.75	\$6,641.25	0.00	\$0.00	16.00	\$4,620.00	69.57	7.00
2.02	CONVERT EXISTING MONITORI	EA	16.00	\$288.75	\$4,620.00	0.00	\$0.00	15.00	\$4,331.25	93.75	1.00
2.02	EXTEND EXISTING MONITORIN	EA	4.00	\$735.00	\$2,940.00	0.00	\$0.00	4.00	\$2,940.00	100.00	0.00
2.03	CONSTRUCT NEW LEACHATE	EA	4.00	\$7,140.00	\$28,560.00	0.00	\$0.00	4.00	\$28,560.00	100.00	0.00
2.03	INST. ADDITIONAL FT OF LEAC	FT	34.00	\$157.50	\$5,355.00	0.00	\$0.00	-18.00	(\$2,835.00)	-52.94	52.00
2.04	DEMOLITION	LS	1.00	\$10,538.75	\$10,538.75	0.00	\$0.00	1.00	\$10,538.75	100.00	0.00
2.05	CLEARING AND GRUBBING	LS	1.00	\$35,197.50	\$35,197.50	0.00	\$0.00	1.00	\$35,197.50	100.00	0.00

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ITE #	ITEM	UNIT	ESIMATED QUANTITY	TRICIL UNIT PRICE BID	AMOUNT BID	INVOICE:			INVOICE TO DATE TRACKING		
						O&M Invoice INV #25 QUANTITY	INV #25 AMOUNT	TOTAL QUANTITY INVOICED	TOTAL AMOUNT INVOICED	TOTAL % PERCENT COMPLETED	TOTAL QUANTITY REMAINING
2.06	DEWATERING-WATER RETENTI	LS	1.00	\$13,013.80	\$13,013.80	0.00	\$0.00	1.00	\$13,013.80	100.00	0.00
2.06	DEWATERING-CREEK MODIFIC	LS	1.00	\$9,190.00	\$9,190.00	0.00	\$0.00	1.00	\$9,190.00	100.00	0.00
2.06	DEWATERING-LEACHATE LAG	000GA	1000.00	\$140.69	\$140,690.00	0.00	\$0.00	840.10	\$118,193.67	84.01	159.90
2.06	DEWATERING-UPGRADIENT IN	000GA	1850.00	\$140.64	\$260,184.00	0.00	\$0.00	700.86	\$98,569.09	37.88	1149.14
2.06E	DEWATERING-DECON WATER	000GA	550.00	\$117.50	\$64,625.00	0.00	\$0.00	64.69	\$7,601.19	11.76	485.31
2.06F	DELETE	NA	NA								
2.06	DEWATERING OTHER	LS	1.00	\$33,000.00	\$33,000.00	0.00	\$0.00	1.00	\$33,000.00	100.00	0.00
2.07	SEDIMENT REMOVAL-LAGOON	CY	4500.00	\$4.91	\$22,095.00	0.00	\$0.00	4002.00	\$19,649.82	88.93	498.00
2.08	SCB SLURRY WALL	SF	7700.00	\$23.70	\$182,490.00	0.00	\$0.00	7064.30	\$167,423.91	91.74	635.70
2.09	SB SLURRY WALL	SF	143000.00	\$7.80	\$1,115,400.00	0.00	\$0.00	143000.00	\$1,115,400.00	100.00	0.00
2.10	COMMON FILL-TYPE A -18" LAY	SY	175000.00	\$3.69	\$645,750.00	0.00	\$0.00	174667.90	\$644,524.55	99.81	332.10
2.10	COMMON FILL-TYPE A - OTHER	LS	1.00	\$289,641.54	\$289,641.54	0.00	\$0.00	0.92	\$265,391.54	91.63	0.08
2.10	COMMON FILL-TYPE B-FROM S	CY	80000.00	\$2.17	\$173,600.00	0.00	\$0.00	65401.00	\$141,920.17	81.75	14599.00
2.10	COMMON FILL-TYPE B-IMPORT	CY	56000.00	\$6.52	\$365,120.00	0.00	\$0.00	0.00	\$0.00	0.00	56000.00
2.11	EMBANKMENT	CY	38000.00	\$8.49	\$322,620.00	0.00	\$0.00	38000.00	\$322,620.00	100.00	0.00
2.11	FOUNDATION FOR EMBANKME	CY	21500.00	\$8.49	\$182,535.00	0.00	\$0.00	15907.00	\$135,050.43	73.99	5593.00
2.12	CLAY/BENTONITE CAP	SY	175300.00	\$9.38	\$1,644,314.00	0.00	\$0.00	170285.00	\$1,597,273.30	97.14	5015.00
2.13	TEST STRIP	LS	1.00	\$26,250.00	\$26,250.00	0.00	\$0.00	1.00	\$26,250.00	100.00	0.00
2.14	SAND DRAINAGE LAYER-12" LA	SY	149650.00	\$3.56	\$532,754.00	0.00	\$0.00	147590.00	\$525,420.40	98.62	2060.00
2.15	GAS COLLECTION LAYER-12" L	SY	153000.00	\$4.76	\$728,280.00	0.00	\$0.00	148651.00	\$707,578.76	97.16	4349.00
2.15	GAS COLLECTION TRENCH	CY	10400.00	\$28.13	\$292,552.00	0.00	\$0.00	10400.00	\$292,552.00	100.00	0.00
2.16	STONE FILL-TYPE A	CY	3800.00	\$22.79	\$86,602.00	0.00	\$0.00	3800.00	\$86,602.00	100.00	0.00
2.16	STONE FILL-TYPE B	CY	1500.00	\$21.20	\$31,800.00	0.00	\$0.00	1090.50	\$23,118.60	72.70	409.50
2.16	STONE FILL-TYPE C	CY	500.00	\$24.17	\$12,085.00	0.00	\$0.00	262.40	\$6,342.21	52.48	237.60
2.17	GEOTEXTILE FILTER-TYPE A	SY	352000.00	\$0.89	\$313,280.00	0.00	\$0.00	345240.20	\$307,263.78	98.08	6759.80
2.17	GEOTEXTILE FILTER-TYPE B	SY	197000.00	\$0.92	\$181,240.00	0.00	\$0.00	187378.00	\$172,387.76	95.12	9622.00
2.18	GEOGRID-TYPE A	SY	22000.00	\$7.17	\$157,740.00	0.00	\$0.00	22000.00	\$157,740.00	100.00	0.00
2.18	GEOGRID-TYPE B	SY	10000.00	\$3.69	\$36,900.00	0.00	\$0.00	10000.00	\$36,900.00	100.00	0.00
2.19	GEONET	SY	59000.00	\$2.64	\$155,760.00	0.00	\$0.00	54583.00	\$144,099.12	92.51	4417.00
2.20	EROSION CONTROL MATTING	SY	35000.00	\$6.18	\$216,300.00	0.00	\$0.00	35000.00	\$216,300.00	100.00	0.00
2.21	CREEK MODIFICATION	LS	1.00	\$143,502.20	\$143,502.20	0.00	\$0.00	1.00	\$143,502.20	100.00	0.00
2.22	ROADWAY	SY	9800.00	\$16.09	\$157,682.00	0.00	\$0.00	9800.00	\$157,682.00	100.00	0.00
2.23	BITUMOUS CONCRETE PAVEME	SY	2300.00	\$21.82	\$50,186.00	0.00	\$0.00	2300.00	\$50,186.00	100.00	0.00
2.24	GEOMENBRANE	SY	174500.00	\$2.88	\$502,560.00	0.00	\$0.00	170285.00	\$490,420.80	97.58	4215.00
2.25	LEACHATE COLLECTION MANH	LS	1.00	\$22,060.50	\$22,060.50	0.00	\$0.00	1.00	\$22,060.50	100.00	0.00
2.25	WELL CHAMBERS	EA	4.00	\$794.00	\$3,176.00	0.00	\$0.00	4.00	\$3,176.00	100.00	0.00
2.26	MANHOLES-UPGRADIENT INTE	LS	1.00	\$21,145.01	\$21,145.01	0.00	\$0.00	1.00	\$21,145.01	100.00	0.00
2.27	UPGRADIENT GW INTERCEPTO	LS	1.00	\$117,407.85	\$117,407.85	0.00	\$0.00	1.00	\$117,407.84	100.00	0.00
2.27	CULVERTS,SURF DRAINAGE&S	LS	1.00	\$46,024.00	\$46,024.00	0.00	\$0.00	1.00	\$46,024.00	100.00	0.00
2.28	FENCING AND SIGNS	LF	6850.00	\$19.24	\$131,794.00	0.00	\$0.00	5138.00	\$98,855.12	75.01	1712.00
2.28	GATES, PERSONAL - 3FT	EA	7.00	\$420.00	\$2,940.00	0.00	\$0.00	7.00	\$2,940.00	100.00	0.00
2.28	GATES,VEHICULAR - 20 FT	EA	1.00	\$840.00	\$840.00	0.00	\$0.00	1.00	\$840.00	100.00	0.00

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ITE #	ITEM	UNIT	ESTIMATED QUANTITY	TRICIL		AMOUNT BID	INVOICE:		TOTAL QUANTITY INVOICED	INVOICE TO DATE TRACKING		
				UNIT PRICE	BID		O&M Invoice INV #25 QUANTITY	INV #25 AMOUNT		TOTAL AMOUNT INVOICED	% PERCENT COMPLETED	TOTAL QUANTITY REMAINING
2.29	SETTLEMENT MONUMENTS	EA	32.00	\$367.50	\$11,760.00		0.00	\$0.00	32.00	\$11,760.00	100.00	0.00
2.30	TOPSOIL - 6" LAYER	SY	192000.00	\$2.35	\$451,200.00		0.00	\$0.00	171950.00	\$404,082.50	89.56	20050.00
2.30	TOPSOIL - 4" LAYER	SY	33000.00	\$1.82	\$60,060.00		0.00	\$0.00	33000.00	\$60,060.00	100.00	0.00
2.31	SEEDING	ACRE	50.00	\$1,443.75	\$72,187.50		0.00	\$0.00	49.95	\$72,115.31	99.90	0.05
2.32	LANDSCAPING	.1 ACR	20.00	\$2,772.00	\$55,440.00		0.00	\$0.00	17.80	\$49,341.60	89.00	2.20
3.01	CAST IN PLACE CONCRETE	CY	150.00	\$500.00	\$75,000.00		0.00	\$0.00	121.51	\$60,755.00	81.01	28.49
5.01	STEEL PIPE SUPPORTS-POSTS	EA	165.00	\$551.74	\$91,037.10		0.00	\$0.00	165.00	\$91,037.10	100.00	0.00
5.01	STEEL PIPE SUPPORTS-HORIZO	LF	5100.00	\$30.25	\$154,275.00		0.00	\$0.00	4500.00	\$136,125.00	88.24	600.00
5.01	STEEL PIPE SUPPORTS-L TO B	LS	1.00	\$45,403.83	\$45,403.83		0.00	\$0.00	1.00	\$45,403.83	100.00	0.00
5.02	MISC. METALS-LEACH. PIPE CR	LS	1.00	\$20,769.24	\$20,769.24		0.00	\$0.00	1.00	\$20,769.24	100.00	0.00
13.01	COLLECTION CONTROL BUILDI	LS	1.00	\$231,009.45	\$231,009.45		0.00	\$0.00	1.00	\$231,009.45	100.00	0.00
13.02	METEOROLOGICAL STATION	LS	1.00	\$28,497.00	\$28,497.00		0.00	\$0.00	0.10	\$2,842.75	9.98	0.90
15.01	MANHOLE PUMPS	EA	11.00	\$5,786.87	\$63,655.57		0.00	\$0.00	11.00	\$63,655.57	100.00	0.00
15.02	WELL PUMPS	EA	4.00	\$5,250.00	\$21,000.00		0.00	\$0.00	4.00	\$21,000.00	100.00	0.00
15.03	LEACHATE COLLECTION LINE-	LF	1250.00	\$6.50	\$8,125.00		0.00	\$0.00	1250.00	\$8,125.00	100.00	0.00
15.03	LEACHATE COLLECTION LINE-	LF	3100.00	\$7.45	\$23,095.00		0.00	\$0.00	3100.00	\$23,095.00	100.00	0.00
15.04	LEACHATE TRANSFER LINE	LF	2230.00	\$19.80	\$44,154.00		0.00	\$0.00	2200.00	\$43,560.00	98.65	30.00
15.05	MECH EQUIPMENT-TANK&PIPI	LS	1.00	\$157,697.40	\$157,697.40		0.00	\$0.00	1.00	\$157,697.40	100.00	0.00
15.06	GAS COLLECTION LINE-6"	LF	8200.00	\$6.62	\$54,284.00		0.00	\$0.00	7568.00	\$50,100.16	92.29	632.00
15.07	GAS COLLECTION LINE-8"	LF	3700.00	\$7.76	\$28,712.00		0.00	\$0.00	3217.00	\$24,963.92	86.95	483.00
15.08	GAS COLLECTION LINE-10"	LF	1800.00	\$10.21	\$18,378.00		0.00	\$0.00	1500.00	\$15,315.00	83.33	300.00
15.09	GAS COLLECTION LINE-12"	LF	650.00	\$25.14	\$16,341.00		0.00	\$0.00	520.00	\$13,072.80	80.00	130.00
15.10	GAS TRANSFER LINE	LF	2150.00	\$35.79	\$76,948.50		0.00	\$0.00	2056.00	\$73,584.24	95.63	94.00
15.11	MOISTURE SEPARATOR	LS	1.00	\$37,796.85	\$37,796.85		0.00	\$0.00	1.00	\$37,796.85	100.00	0.00
15.12	CONDENSATE TRAP	LS	1.00	\$22,130.01	\$22,130.01		0.00	\$0.00	0.90	\$19,917.01	90.00	0.10
15.13	CARBON DIOXIDE EXT.	LS	1.00	\$197,803.20	\$197,803.20		0.00	\$0.00	1.00	\$197,803.20	100.00	0.00
15.14	GAS COLLECTION LINE-FRP	LS	1.00	\$38,710.00	\$38,710.00		0.00	\$0.00	1.00	\$38,710.00	100.00	0.00
16.01	ELECTRICAL AND TELEPHONE	LS	1.00	\$32,623.50	\$32,623.50		0.00	\$0.00	1.00	\$32,623.50	100.00	0.00
16.02	ELECTRICAL WORK	LS	1.00	\$326,961.60	\$326,961.60		0.00	\$0.00	1.00	\$326,961.58	100.00	0.00
16.03	INSTRUMENT AN CONTROL	LS	1.00	\$296,253.30	\$296,253.30		0.00	\$0.00	1.00	\$296,253.29	100.00	0.00

INVOICE AMOUNT	\$221,842.50	#####	\$15,812,870.17
INVOICE RETAINAGE	\$0.00	\$847,134.42	
INVOICE AMOUNT LESS RETAINAGE	\$221,842.50	#####	\$15,812,870.17

## OVERALL PROJECT SUMMARY

ORIGINAL CONTRACT AMOUNT \$16,942,688.57

TOTAL CONTRACT INVOICES TO DATE (IN \$15,812,870.17) (No Retainage)

REMAINING FUNDING FROM ORIGINAL CO \$1,129,818.40

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ECONTOURING LANDFILL PROJECT  
E TRACKING/ TRICIL ENVIRONMENTAL RESPONSE  
ONTRACT: A49921

10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY		UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE				2ND INVOICE				
									QTY	COST	RETAINAGE	QUANTITY REMAINING	DATE	QUANTITY	COST	ETAINAG	QUANTITY REMAINING
1	N/A	92016-09	FURNISH AND INSTALL RISER AND CAP FOR GM-22 AND CONVERT GM-29B TO GAS COLLECTION SYSTEM	1	LS	\$288.75	\$288.75	\$0.00	1	\$488.75	\$48.88	\$0.00	COMPLETE	✓			
2	N/A	92016-10	ADDITIONAL SILT FENCING REINFORCED STANDARD	1500	LF	\$1.89	\$2,835.00	\$0.00	7200	\$13,104.00	\$1,310.40	1800	5-27-93 COMPLETE	194.4	\$353.81	\$35.81	1605.6
3	3	93-016-13	CLEARING & GRUBBING	1	LS	\$55,072.50	\$0.00	\$55,072.50	1	\$55,072.50	\$5,507.25	0	COMPLETE				
5	2	92016-11	CREEK REALIGNMENT	1	LS	\$1,463.58	\$0.00	\$1,463.58	1	\$1,463.58	\$146.36	0	COMPLETE				
6	FO 1	92016-14	80K STOCKPILE INCREASE OF +45K TYPE B MATERIAL	45000	CY	\$2.17	\$97,650.00	\$0.00	32089	\$69,633.13	\$6,963.31	12911	6-25-94 COMPLETE SEE OVERCHARGE IN ORIGINAL CONTRACT	12911	\$28,016.87	\$2,801.69	0
9	6	93016-16	MANHOLE RETROFIT	1	LS	\$39,329.37	\$0.00	\$39,329.37	1	\$39,329.37	\$3,932.94	0	COMPLETE				

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ECONTOURING LANDFILL PROJECT  
E TRACKING/ TRICIL ENVIRONMENTAL RESPONSE  
ONTRACT: A49921

10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY	UNIT	COST OF PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE				2ND INVOICE				
									QTY	COST	RETAINAGE	QUANTITY REMAINING	DATE	QUANTITY	COST	ETAINAG	QUANTITY REMAINING
10	7	93016-17	ADDITIONAL TRENCHING @ BCSWTF	1	LS	\$2,437.00	\$0.00	\$2,437.00	67.26%	\$1,639.22	\$163.92	32.74%	COMPLETE				
11	NA	93016-18	ADDITIONAL QUANTITIES														
			-OF SCB MATERIAL	500	SF	\$23.70	\$11,850.00	\$0.00									
			-OF SB MATERIAL	7000	SF	\$7.80	\$54,600.00	\$0.00	6796	\$53,008.80	\$5,300.88	204	COMPLETE				
			-ADD COMMOM FILL/TYPE B	15000	CY	\$2.17	\$32,550.00	\$0.00									
			-ADD. GAS TRENCH	2600	CY	\$28.13	\$73,138.00	\$0.00					1-10-95	257.6	\$7,246.29	\$0.00	2342.4
15	12	94016-22	GEOGRID CORNER DETAIL														
			-TYPE A	4225	SY	\$7.17	\$30,293.25	\$0.00	901	\$6,460.17	\$646.02	3324	✓				
			-TYPE B	860	SY	\$3.69	\$3,169.71	\$0.00	591.8	\$2,183.74	\$218.37	268.2					
			-SURVEYING	28	HR	\$124.47	\$0.00	\$3,485.16					1-10-95	14	\$1,742.58	\$0.00	0
			-5% CONTRACTOR'S FEE	1	LS	\$174.26	\$0.00	\$174.26					1-10-95	1	\$87.13	\$0.00	0
													COMPLETE				
16	9	93016-19	CONCRETE ENCASEMENT ALONG TRANSFER LINE	1	LS	\$20,631.01	\$0.00	\$20,631.01	1	\$20,631.01	\$2,063.10	0	COMPLETE				
18	10	93016-21	SED BASIN B SOLIDIFICATION	1	LS	\$17,810.00	\$0.00	\$17,810.00	1	\$17,810.00	\$1,781.00	0	COMPLETE	✓			

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ECONTOURING LANDFILL PROJECT  
E TRACKING/ TRICIL ENVIRONMENTAL RESPONSE  
ONTRACT: A49921

10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY		UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE	COST	RETAINAGE	QUANTITY	DATE	2ND INVOICE			QUANTITY
									QTY			REMAINING		QUANTITY	COST	ETAINAG	REMAINING
19	13	94016-23	RGS CONDUIT/LEACHATE CONT PANEL BRACING	1	LS	\$6,456.17	\$0.00	\$6,456.17	1	\$6,456.17	\$645.62	0	COMPLETE				
21	NA	94016-25	CLOSE WELL GM-39	1	LS	\$6,895.04	\$0.00	\$6,895.04	93.18%	\$6,424.70	\$642.47	6.82%	COMPLETE				
22	27	94016-26	MOISTURE SEPARATOR	1	LS	\$1,542.51	\$0.00	\$1,542.51	1	\$1,542.51	\$0.00	0	COMPLETE				
23	25	94016-27	LEACHATE REMOVAL	1	LS	\$68,108.26	\$0.00	\$68,108.26	80.00%	\$54,486.61	\$5,448.66	20.00%	2-22-94	4.245652%	\$2,891.64	\$289.16	15.754348%
24	22	94016-28	EXHAUST FAN DAMPER MOTOR	1	LS	\$934.50	\$0.00	\$934.50	1	\$934.50	\$93.45	0	COMPLETE	✓			

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ECONTOURING LANDFILL PROJECT  
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10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY	UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE				2ND INVOICE			
								QTY	COST	RETAINAGE	QUANTITY REMAINING	DATE	QUANTITY	COST	QUANTITY REMAINING
25	24	94016-30	EROSION CONTROL MATTING	1	LS	\$55,063.80	\$0.00	\$55,063.80	1	\$55,063.80	\$5,506.38	0	COMPLETE	✓	
26	20	94016-29	MET STATION CREDIT	NA									CREDIT TO ORIGINAL CONTRACT COMPLETE		
27	18A	93016-31	SEEPAGE MONITOR	1	LS	\$6,215.80	\$0.00	\$6,215.80	1	\$6,215.80	\$621.58	0	COMPLETE		
28	26	94016-32	CARBON UNIT AND SUPPORT STRUCTURE	1	LS	\$14,485.80	\$0.00	\$14,485.80	1	\$14,485.80	\$1,448.58	0	COMPLETE		
29	28	94016-33	ENERGY DISSIPATOR PD4	1	LS	\$15,660.50	\$0.00	\$15,660.50	1	\$15,660.50	\$1,566.05	0	COMPLETE		
30	22	94016-34	LEACHATE PUMPS	1	LS	\$1,943.55	\$0.00	\$1,943.55	1	\$1,943.55	\$194.36	0	COMPLETE		



NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ECONTOURING LANDFILL PROJECT  
E TRACKING/ TRICIL ENVIRONMENTAL RESPONSE  
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10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY		UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE	COST	RETAINAGE	QUANTITY	DATE	2ND INVOICE			QUANTITY
									QTY			REMAINING		QUANTITY	COST	ETAINAG	REMAINING
31	NA	94016-35	ADDITIONAL GEOGRID	3500	SY	\$3.69	\$12,915.00	\$0.00	268.2	\$989.66	\$98.97	3231.8	2-22-94 COMPLETE	931.2	\$3,436.13	\$343.61	2568.8
32	NA	94016-36	MANHOLE RINGS										NOT REQUIRED				
33	31	94016-37	GAS TRENCH SUMP	1	LS	\$1,357.26	\$0.00	\$1,357.26	1	\$1,357.26	\$135.73	0	COMPLETE				
34	32/38	94016-38	INCREASD MANHOLE ELEVATI	1	LS	\$13,466.20	\$0.00	\$13,466.20	1	\$13,466.20	\$0.00	0	COMPLETE				
35	NA	94016-39	ADDITIONAL WELL SEALING GM-39	1	LS	\$932.40	\$0.00	\$932.40	1	\$932.40	\$93.24	0	COMPLETE				

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10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY	UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE	COST	RETAINAGE	QUANTITY		DATE	2ND INVOICE			
								QTY			REMAINING			QUANTITY	COST	ETAINAG	QUANTITY REMAINING
36	26	94016-40	CARBON UNIT ELECTRICAL ONLY INCLUDING GROUNDING	1	LS	\$11,392.02	\$0.00	\$11,392.02	1	\$11,392.02	\$0.00	0	COMPLETE				
37	3	94016-41	C2 CULVERT DRAINAGE SWALE	1	LS	\$3,328.39	\$0.00	\$3,328.39	1	\$3,328.39	\$0.00	0	COMPLETE				
38	33	94016-42	STORAGE ROOM DAMPER MOT	1	LS	\$2,398.97	\$0.00	\$2,398.97	1	\$2,398.97	\$0.00	0	COMPLETE				
39	35	94016-43	PRESSURE SWITCHES	1	LS	\$758.74	\$0.00	\$758.74	1	\$758.74	\$75.87	0	COMPLETE				
40	34A	94016-44	EXPANSION LOOP REDESIGN	1	LS	\$13,585.81	\$0.00	\$13,585.81	1	\$13,585.81	\$0.00	0	COMPLETE				
41	36	94016-45	FRENCH DRAIN &										COMPLETE				

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

ECONTOURING LANDFILL PROJECT  
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ONTRACT: A49921

10/18/93  
03/19/97

BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY		UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE				2ND INVOICE				
									QTY	COST	RETAINAGE	QUANTITY REMAINING	DATE	QUANTITY	COST	ETAINAG	QUANTITY REMAINING
			STONE ACCESS RAMP														
			TYPE-A STONE	381.2	CY	\$22.97	\$8,756.16	\$0.00	381.2	\$8,756.16	\$875.62	0					
			FILTER	1150	SY	\$0.89	\$1,023.50	\$0.00	1150	\$1,023.50	\$102.35	0					
			1.5" STONE	1	LS	\$1,135.44	\$0.00	\$1,135.44	1	\$1,135.44	\$113.54	0					
42	37	94016-46	GALVANIZED DUCT WORK	1	LS	\$475.21	\$0.00	\$475.21	1	\$475.21	\$0.00	0	COMPLETE				
43	40	94016-47	ANCHORAGE ON 1" FORCE MAI	1	LS	\$1,846.92	\$0.00	\$1,846.92	1	\$1,846.92	\$184.69	0	COMPLETE				
44	39/42	94016-48	STEEL EXTENSIONS	2	AC	\$551.74	\$1,103.48	\$0.00	2	\$1,103.48	\$110.35	0	COMPLETE				
				34	LF	\$30.25	\$1,028.50	\$0.00	34	\$1,028.50	\$102.85	0					
				1	LS	\$2,612.00	\$0.00	\$2,612.00	1	\$2,612.00	\$261.20	0					
45	47/50 54	94016-49	LEACHATE GLAND SEAL PRESSURE RELIEF VENT WATER REMOVAL FROM BCRRRC WET WELL	1	LS	\$3,605.42	\$0.00	\$3,605.42	1	\$3,605.42	\$360.54	0	COMPLETE				
46	46	94016-50	INSPECTION ROAD ADDITIONAL COMMON FILL TYPE A	1	LS	\$3,911.60	\$0.00	\$3,911.60	1	\$3,911.60	\$391.16	0	COMPLETE				

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

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E TRACKING/ TRICIL ENVIRONMENTAL RESPONSE  
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10/18/93  
03/19/97

BUR	DCR	BCM's							FIRST			QUANTITY			2ND INVOICE				QUANTITY
#	#	#	DESCRIPTION	QUANTITY	UNIT	PRICE	COST OF	COST OF	INVOICE	COST	RETAINAGE	REMAINING	DATE		QUANTITY	COST	ETAINAG	REMAINING	
							EXTRAS	SUPPLS.	QTY										
47	NA																		
48	49	94016-52	ADDITIONAL SUPPORTS FRP PIPE BRIDGE	1	LS	\$4,990.03	\$0.00	\$4,990.03	1	\$4,990.03	\$0.00	0	COMPLETE						
49	NA																		
50	48	94016-54	ADDITIONAL STONE AT PD3 & PD4	1	LS	\$7,812.05	\$0.00	\$7,812.05	1	\$7,812.05	\$781.21	0	COMPLETE						
51	NA																		
52	51	94016-56	THREE WIRE CONTROL BOXES	1	LS	\$2,948.84	\$0.00	\$2,948.84	1	\$2,948.84	\$0.00	0	COMPLETE						
53	53	94016-57	ADD RAISE LEW 10 PANELS	1	LS	\$1,546.50	\$0.00	\$1,546.50	1	\$1,546.50	\$0.00	0	COMPLETE						
54	NA																		
55	55	94016-59	STORAGE ROOM HEATER	1	LS	\$1,237.56	\$0.00	\$1,237.56	1	\$1,237.56	\$123.76	0	COMPLETE						

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

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BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY	UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE				2ND INVOICE			
								QTY	COST	RETAINAGE	QUANTITY REMAINING	DATE	QUANTITY	COST	QUANTITY REMAINING
56	60	94016-61	ADD ELECTRICAL AT FLOWME	1	LS	\$881.19	\$0.00	\$881.19	1	\$881.19	\$0.00	0	COMPLETE		
57															
57	45	94016-61	TWO EXIT SIGNS	1	LS	\$676.71	\$0.00	\$676.71	1	\$676.71	\$0.00	0	COMPLETE		
58	NA														
59	NA														
60	59	94016-55	EXTRA MOTOR DAMPER	1	LS	\$1,318.59	\$0.00	\$1,318.59	1	\$1,318.59	\$0.00	0	COMPLETE		
61	NA	94016-63	PUMP CLEANOUT	1	LS	\$13,405.68	\$0.00	\$13,405.68	1	\$0.00	\$0.00	0	COMPLETE CO IN PROGRESS INVOICE IN HAND SINCE 12/19/94 DR		
62	61	94016-63	UNIT PRICE OVERRUNS	1	LS	\$4,923.38	\$0.00	\$4,923.38	1	\$4,923.38	\$0.00	0	COMPLETE		
63	62	94016-64	EXTRA O&M	1	LS	\$4,270.90	\$0.00	\$4,270.90	1	\$0.00	\$0.00	0	COMPLETE CO IN PROGRESS		

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

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BUR #	DCR #	BCM's #	DESCRIPTION	QUANTITY	UNIT PRICE	COST OF EXTRAS	COST OF SUPPLS.	FIRST INVOICE QTY	COST	RETAINAGE	QUANTITY REMAINING	DATE	2ND INVOICE QUANTITY	COST	ETAINAG	QUANTITY REMAINING
64	NA												INVOICE IN HAND SINCE 12/19/94			
												MA				
65	64	94016-65	UNIT PRICE OVERRUNS #2	1	LS	\$13,405.68	\$0.00	\$13,405.68	1	\$0.00	\$0.00	0	COMPLETE			
													CO IN PROGRESS			
													INVOICE IN HAND SINCE 12/19/94			
66	NA												DR			
67	NA															
68	NA	94016-69	ADDITIONAL GROUNDING	1	LS	\$0.00	\$0.00	\$0.00	1	\$0.00	\$0.00	0	COMPLETE			
													CO IN PROGRESS			
													INVOICE IN HAND SINCE 12/19/94			
													DF			
						\$331,201.35	\$452,512.30			\$544,080.74	\$48,060.64			\$43,774.44	\$3,470.27	

INVOICE TRACKING TOTALS:

\$783,713.65 :TOTAL COST OF CHANGE ORDERS TO DATE

\$587,855.18 :TOTAL COST INVOICED

75.01% :PERCENT COMPLETE

\$51,530.91 :RETAINAGE HELD

## **Attachment III**



Christine Todd Whitman  
Governor

State of New Jersey  
Department of Environmental Protection

Robert C. Shinn, Jr.  
Commissioner

Tuesday, July 15, 1997

MEMORANDUM

To: Art Esposito, Supervising Accountant  
Financial and Support Operations

Through: Anthony Farro, Director  
Division of Publicly Funded Site Remediation

Through: Edward Putnam, Assistant Director  
Division of Publicly Funded Site Remediation

Through: George King, R.E., Chief  
Bureau of Construction

Through: *TJA* Thomas J. Allen, Section Chief  
Bureau of Construction

From: Dennis F. Reinknecht, Construction Manager *D. Reinknecht*  
Bureau of Construction

Subject: Final Contract Settlement and Retainage Release  
Florence Land Recontouring Landfill Project  
Burlington County, New Jersey

Contract: A49921  
Laidlaw Environmental Services, Inc.

Attached as Enclosure 1, please find a completed Retainage Release Form DEP-052, a Final Contract Settlement/Release of Claims Form and Retainage Release Invoice signed by the Contractor, Laidlaw Environmental Services, Inc. for the Florence Land Recontouring Landfill Project. All work has been completed to the satisfaction of the DEP. There are no items outstanding on this project. Therefore, I request retainage be released for this project in the final amount of \$600,000.00.



Please find enclosed the following documentation supporting Final Settlement and Retainage Release.

- Enclosure 2: Retainage Amount Tracking Documentation
- Enclosure 3: Slurry Wall Claim Offer Documentation
- Enclosure 4: Pump Cleanout Documentation
- Enclosure 5: Special Damages Documentation
- Enclosure 6: Saturday and Holiday Special Damages Documentation

Thank you for your consideration regarding this matter. If you have any questions please call me at 984-2991.

c. BC File

## Final Contract Settlement

PROJECT NAME AND LOCATION  Florence Land Recontouring Landfill Project Burlington County, New Jersey	COOP. AGREEMENT NO. and/or AUTHORIZATION NO. V 00259584-5
	CONTRACT NO. A 49921

## I. PROPOSAL

## A. DESCRIPTION OF SETTLEMENT

In accordance with Article 16.12 Waiver of Claims, and as a condition of final payment, Laidlaw Environmental Services, d.b.a. Tricil Environmental Response, under Contract Number A49921, dated November 12, 1991, between Laidlaw and the New Jersey Department of Environmental Protection, having reached final completion of the construction, operation and maintenance of the Florence Land Recontouring Landfill Project, Burlington County, NJ., hereby releases the State of New Jersey, its officers and agents from all claims and demands arising under or by virtue of this contract.

Laidlaw hereby accepts the sum of \$600,000.00 in retainer as the final payment due and owing under the contract, and waives any rights to additional retainer or costs incurred under this contract.

In addition, the State of New Jersey hereby releases Laidlaw from any liquidated damages in accordance with Article 11.1 Liquidated Damages and any claims and/or damages related to the pipe drop failure and subsequent repair in the fall of 1994.

Unless otherwise specified herein or by New Jersey Law or otherwise expressly agreed to by the parties to this Contract A49921, final payment under this Contract shall not constitute a waiver of the State's claims against Laidlaw or his sureties under this Contract or the NJDEP's right to continued performance of the Contractor's obligations pursuant to the Contract, including all applicable warranties and guarantees.

## B. COST BREAKDOWN FOR SETTLEMENT

1.	Total Retainage Amount Withheld To Date	\$ 898,665.00
2.	Acceptance of the NJDEP Slurry Wall Claim Offer. <sup>1</sup>	\$ 62,759.71
3.	Acceptance of the final cost proposal for pump cleanout. <sup>2</sup>	\$ 13,405.68
4.	Acceptance of responsibility for additional special damages (Acres). <sup>3</sup>	(\$ 330,145.84)
5.	Acceptance of responsibility Saturday and Holiday special damages. <sup>4</sup>	(\$ 44,684.55)

Final Settlement Amount **\$ 600,000.00**

## Enclosed References:

1. As transmitted by letter to Laidlaw on March 8, 1993.
2. As received by letter to NJDEP on December 16, 1994.
3. As transmitted by letter to Laidlaw on April 3, 1996.
4. As transmitted by letter to Laidlaw on April 3, 1996.

## C. CERTIFICATION AND EXECUTION BY CONTRACTOR

I certify that this settlement is accurate.

Mr. Henry H. Taylor, Vice President, Legal and Regulatory Affairs  
Name and Title (Typed or Printed)

*[Signature]* 6-23-97  
Date

Name of Company Laidlaw Environmental Services, d.b.a. Tricil Environmental Response

Address 220 Outlet Point Blvd  
Columbia, SC 29210

## III. NJDEP APPROVAL AND EXECUTION

BUREAU CHIEF, BC

*[Signature]*  
Name and Title (Typed or Printed)

*[Signature]*  
Signature

7/18/97  
Date

DIRECTOR, DPFSR

\_\_\_\_\_  
Name and Title (Typed or Printed)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

Attachment 1

ENCLOSURE 1. Contract Settlement With Attachments And Transmittal Letter.

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
**PROJECT COMPLETION/RETAINAGE RELEASE**

FSOS USE ONLY
Date Retainage Released
Amount Released
Balance

TO: Invoice Unit Supervisor, Financial & Support Operations Section (FSOS), FMPGS  
FROM: DENNIS F. REINKNECHT PHONE: 609 292-1976  
TITLE: Construction Mgr. Egn II UNIT/DIV. DPFSR / BC  
AUTHORIZATION NO.: V00259584-5 COOP. AGREEMENT NO.:  
PROJECT NAME: FLORENCE LAND RECONTOURING LANDFILL PROJECT.  
LOCATION: BURLINGTON COUNTY NJ  
CONTRACT AMT. 16,942,688.57 CONTRACT NO. (If Site Specific): A49921  
VENDOR: Laidlaw Environmental Services ASA Tricil  
1123 Lumpkin Rd  
Houston, Texas 77043

## THIS IS TO NOTIFY FSOS THAT:

- ☒ • Tasks billed to date have been satisfactorily completed.  
• All specific contract requirements have been met.  
• There are no disputed charges between the New Jersey Department of Environmental Protection and the vendor(s).  
☒ Certification of Substantial Completion has been issued. \$ 0 must be held to complete punchlist items.  
Remaining retainage may be released.

## RETAINAGE RELEASE STATEMENT:

- ☒ I certify that the Contractor has completed the work and hereby authorize the release of the retainage.  
☐ I hereby certify that partial release of retainage in the amount of \$ \_\_\_\_\_ is approved.  
☐ Final Audit is required or recommended.  
☐ The balance of the authorization listed above may be deauthorized.  
☒ The authorization listed above should be held open. (State reason in comment section below.)

## COMMENTS:

SIGNATURE: \_\_\_\_\_

Dennis Reinknecht  
Case Manager  
Ben J. Miller  
Bureau Chief

DATE: \_\_\_\_\_

7/15/97  
7/15/97

Assistant Director  
Division: PFPSR / Construction

## TO BE COMPLETED BY FINANCIAL &amp; SUPPORT OPERATIONS SECTION, FMPGS

- ☐ Final Audit has been requested. DATE \_\_\_\_\_  
☐ Retainage will/has been released. ☐ Submit Retainage Invoice.  
☐ Retainage cannot be released at this time.  
Reason(s): \_\_\_\_\_

Signature: \_\_\_\_\_ Date \_\_\_\_\_  
Supervisor, FSOS



STATE OF NEW JERSEY  
PAYMENT VOUCHER  
(VENDOR INVOICE)

PO #

PV DATE

DOCUMENT

BATCH

ACTG FY

TC

AGY

NUMBER

TC

AGY

NUMBER

ACTG PER.

PP START

SCHED PAY

CHK

OFF

F

RF

CK

FL

(A) VENDOR ID NUMBER

MO

DY

YR

MO

DY

YR

CAT

LIAB

A

TY

FL

CONTRACT NO

AGENCY REF

BUYER

(B)

TERMS

PAYEE: SEE INSTRUCTIONS FOR  
COMPLETING ITEMS  
(A) THROUGH (G)

(C) TOTAL AMOUNT

\$600,000.00

(D) PAYEE NAME AND ADDRESS

Laidlaw Environmental Services  
d.b.a. Tricil Environmental Response  
1123 Lumpkin Road  
Houston, Texas 77043

(E) SEND COMPLETED FORM TO:

New Jersey Dept. Of Environmental Protection  
Fiscal Support Unit  
5th Floor, 401 E.State St.  
CN413  
Trenton, NJ 98625

(F) PAYEE DECLARATIONS

I CERTIFY THAT THE WITHIN PAYMENT VOUCHER IS CORRECT IN ALL  
ITS PARTICULARS, THAT THE DESCRIBED GOODS OR SERVICES  
HAVE BEEN FURNISHED OR RENDERED AND THAT NO BONUS HAS  
BEEN GIVEN OR RECEIVED ON ACCOUNT OF SAID DOCUMENT.

PAYEE SIGNATURE

PAYEE TITLE

BILLING DATE

LINE NO

REFERENCE

CD

AGY

NUMBER

LINE

(G) PAYEE REFERENCE

1

2

3

Retainage Release Final Invoice

FUND

AGCY

ORG CODE

SUB-ORG

APPR UNIT

ACTIVITY CD

OBJECT CD

SUB-OBJ

REV SRCE

SUB-REV

PROJECT/JOB NO

1

2

3

RPT CT

BS ACT

DT

DESCRIPTION

QUANTITY

AMOUNT

ID

PF

TX

1

2

3

ITEM  
NO.

COMMODITY CODE/DESCRIPTION OF ITEM

QUANTITY

UNIT

UNIT PRICE

AMOUNT

Florence Land Recontouring Landfill Project  
Burlington County, NJ  
Contract A49921

Retainage Release (Final)

1

LS

\$600,000.00

\$600,000.00

TOTAL

\$600,000.00

CERTIFICATION BY RECEIVING AGENCY: I certify that the above services have been  
received or services rendered as stated herein.

CERTIFICATION BY APPROVAL OFFICER: I certify that this Payment Voucher is  
correct and just, and payment is approved.

Signature

Authorized Signature

Title

Date

Title

Date

June 23, 1997

Mr. George King, P.E.  
Chief, Bureau of Construction  
State of New Jersey  
Department of Environmental Protection  
CN 413  
Trenton, New Jersey 08625-0413

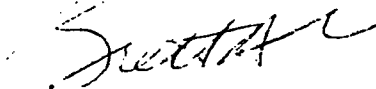
Re: Florence Landfill Recontouring Project

Dear Mr. King:

Enclosed please find the executed Final Contract Settlement Form, Retainage Release Invoice and Corporate Resolution in the above-referenced matter.

If you should have any questions, please feel free to call me.

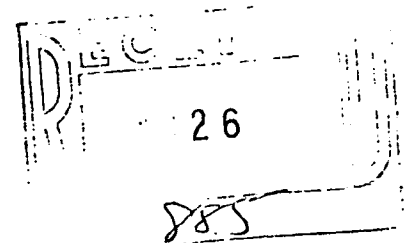
Sincerely,



Brett A. Hickman

BAH/hs

enclosures



**LIDLAW ENVIRONMENTAL SERVICES, INC.**  
(the "Company")

**DIRECTOR'S RESOLUTIONS**

The undersigned, being the only Director of the Company, hereby consents to, adopts and approves the following resolutions and the taking of the following actions:

**RESOLVED**, that Henry Taylor, Secretary of the Company, is hereby authorized and empowered on behalf of the Company from time to time to negotiate, make, settle the terms of, enter into, amend, sign, and deliver (under the Company's seal if appropriate) contracts, agreements, indemnities and other documents of every nature in connection with the business of the Company.

**DATED** the 16th day of December, 1996.

  
Kenneth W. Winger



State of New Jersey  
DEPARTMENT OF ENVIRONMENTAL  
PROTECTION AND ENERGY

CHRISTINE TODD WHITMAN  
Governor

ROBERT C. SHINN, JR.  
Commissioner

Mr. Henry H. Taylor  
Vice President, Legal and Regulatory Affairs  
Laidlaw Environmental Services  
d.b.a. Tricil Environmental Response  
220 Outlet Point Blvd  
Columbia, SC 29210

Thursday, May 15, 1997

Subject: Florence Land Recontouring Landfill Project  
Burlington County, New Jersey  
Contract: A49921

Re: Final Retainage Release Invoice and Waiver of All Claims

Dear Mr. Taylor,

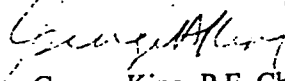
This letter is in response to recent communications between Mr. Brett A. Hickman, Esq. of Laidlaw Environmental Services (Laidlaw) and Mr. Dennis Reinknecht of the New Jersey Department of Environmental Protection (NJDEP) regarding Final Retainage Release and Waiver of Claims as required by contract.

A Final Contract Settlement Form (Attachment 1) and a Retainage Release Invoice (Attachment 2) in the amount of \$600,000.00 has been enclosed for you signature. In addition, we have enclosed related correspondence to the settlement to help with your review and acceptance. Please sign and return both documents for processing and payment.

Also, please provide an updated Laidlaw Corporate Resolution authorizing yourself as an officer of the corporation.

Thank you for your consideration regarding this matter. If you have any questions please call Mr. Dennis Reinknecht (609)984-2991.

Sincerely,

  
George King, P.E., Chief  
Bureau of Construction

Enclosures

1. Final Contract Settlement
2. NJDEP letter dated March 8, 1993.
3. Laidlaw letter dated December 16, 1994.
4. NJDEP letter dated April 3, 1996.
5. Retainage Release Invoice.

c. A.Farro, Director  
B. Weltman, DAG  
T Allen, BC  
F.Pinto, BCM  
Brett Hickman, Esq., Laidlaw



ENCLOSURE: CONTRACT CORRESPONDENCE



State of New Jersey  
Department of Environmental Protection and Energy  
Division of Publicly Funded Site Remediation  
CN 413  
Trenton, NJ 08625-0413  
Tel. # 609-984-2902  
Fax.. # 609-633-2360

Scott A. Weiner  
Commissioner

Anthony J. Farro  
Director

March 8, 1993

Mr. Gary Jarutowicz  
Project Manager  
Tricil Environmental Response, Inc.  
RD #1, Box 323  
Burlington/Columbus Road  
Bordentown, New Jersey 08505

RE: FLORENCE LAND RECONTOURING LANDFILL PROJECT  
RESPONSE TO FINAL CLAIM  
DIFFERING SITE CONDITIONS SLURRY WALL

Dear Mr. Jarutowicz:

This letter is the response of NJDEPE to the Tricil Final Claim, Differing Site Conditions - Slurry Wall. This response is intended as a document of negotiation and any monetary amounts stated herein are not to be considered a commitment of payment from the Department, the State or the USEPA. This letter is for settlement purposes only. This letter is issued on the express condition that any statement herein is not to be construed as an admission by the State of any fact or of any legal liability. It is being issued for specific and limited purpose of attempting to settle the subject claim.

We have reviewed Tricil's claim in great detail and at some expense. Tricil's claim can be broken down into two general components: 1) the quantities of unsuitable material encountered along the slurry wall alignment and the costs associated therewith; and 2) the relocation of slurry wall installation and the costs associated therewith. Our claim response is as follows:

Section I. Issues Related to Quantities of Unsuitable Material Encountered Along the Slurry Wall Alignment

The amount of unsuitable material encountered along the slurry wall alignment at Sta. 40+40 to Sta. 55+73 is the primary issue raised in Tricil's claim. Much correspondence has been issued regarding this topic, specifically Acres' letters of September 30, 1992 and October 28, 1992, which are the basis for our response (Attachments 1 & 2, respectively).

Prior to a detailed discussion of the slurry wall alignment, the basic interpretation of the Contract Specifications must be clarified. The Contract Specifications and boring logs available in the bid package clearly indicated that unsuitable material would be encountered in the backfill soils. The Specification states that backfill material excavated from the trench that is not free of roots, organic matter, refuse or other deleterious material shall be stockpiled within the landfill and replaced with make-up materials imported from an offsite source. Some garbage and trash were clearly expected in the trench at time of bid, as noted in the Specifications. Further, the Specification provided that any excavated soils which could not be used as backfill soils were to be transported, mixed, stabilized with sand or cement and spread and compacted in the disposal area of the landfill, or as directed by the Engineer. The cost of encountering this trash in the backfill soils, separating the trash, and/or importing make-up backfill soils is included in the contract line item and referenced in the measurement and payment section of the soil-bentonite slurry wall Specification.

Soil borings were provided as part of the Specifications. The borings were located at approximately 100 foot intervals along the slurry wall alignment. The Specifications state:

"The Owner does not represent that the available information and samples show the conditions that will be encountered in performing the work, only that the information and samples show conditions encountered at a particular point from which such information and samples were obtained.

Contractor shall assume all responsibility for deductions and conclusions which may be made as to the nature of the materials to be excavated and of doing other work affected by the geology at the site."

To evaluate Tricil's claim, the slurry wall alignment and actual conditions encountered from Sta. 40+00 to Sta. 55+73 must be reviewed. This alignment can be divided into three segments:

Segment 1 - Sta. 40+00 to Sta. 47+50 along the southern face

Even assuming for the sake of argument that the boring logs were to be construed as an affirmative representation of subsurface conditions which the contractor would encounter along every foot of the slurry wall alignment, conditions encountered by Tricil along this stretch of alignment are consistent with the project boring logs and Specifications. No additional compensation is due the Contractor for work performed in this area. Any shortfall of backfill materials and subsequent pugmill down time, is due to the

Contractor's means and methods of operations. For example, Tricil's subcontractor used only one truck for both acceptable fill and unsuitable waste material, without making any attempt to separate the usable fill for later use as backfill. Tricil's subcontractor had no incentive to handle the excavated soils efficiently as they did not have the responsibility to provide the required backfill. Further, the slurry wall excavation could have commenced in areas of imported embankment where there was no risk regarding the type of materials to be encountered in order to assure immediately the availability of excess soils.

Segment 2 - Sta. 47+50 to Sta. 49+25 where GeoCon was significantly off center-line of the slurry wall alignment defined by contract, and Field Order #7

Where the excavation is inboard of the slurry wall centerline and closer to the interior of the landfill, no additional compensation is due Tricil for unsuitable material encountered in this area. Once GeoCon left the directed slurry wall alignment, any delay and additional work due to the excavation in this area are Tricil's responsibilities.

This Tricil misalignment directly led to the significant shortfall of backfill materials to be provided for pugmill backfill operations. This is the primary reason for the down-time delay from September 24, 1992 to September 29, 1992

Segment 3 - Sta. 49+25 to Sta. 51+30 along the southwestern face.

Field Order #8 issued on September 24, 1992 and Field Order #8A issued on September 28, 1992 provided documentation of the State's and Acres' good faith efforts to compensate the Contractor for additional trash encountered after Sta. 50+40 (Attachments 3 & 4, respectively). These field orders were issued as an attempt by the State to deal with the situation at hand based on information then available in an effort to keep the job moving. For settlement purposes only, we are willing to consider that, between Sta. 50+40 to 51+30, the amount of unusable materials present in the trench exceeded that which could have been reasonably anticipated by the Contractor and that the circumstances could be construed to amount to a legitimate change in subsurface conditions. However, with regard to the area from Sta. 49+25 to 50+40, the State's position is that the amount of unsuitable material encountered here is consistent with the project boring logs and specifications.

After careful consideration of the actual costs incurred by Tricil concerning the quantities of unsuitable materials encountered, we are willing to recommend, subject to appropriate and necessary approvals being obtained, that Tricil be paid the amount of \$30,473.81. This amount includes the following:

A. Off-Site Backfill to Replace Unsuitable Material

The amount of replacement backfill required to replace the amount of unusable material removed from Sta 50+40 to 51+30 at full depth by excavated trench width appears to be a reasonable expense.

B. Stabilize and Place Discarded Slurry Wall Excavated Material

The cost of the stabilization and placement of the unsuitable material removed from the slurry wall trench from Sta. 50+40 to 51+30 at full depth by excavated trench width (3½ feet) should be paid. This provides 420 compacted cubic yards (ccy) imported fill material or 500 cubic yards uncompacted quantity using 1.2 cy/ccy swell factor.

We have evaluated Tricil's proposal to stabilize and dispose of 4000 cy (uncompacted) of this unsuitable material. We have evaluated the labor, equipment and material estimates and found them to be fair and reasonable. However, as discussed, the State is responsible to reimburse Tricil for only the stabilization and disposal of 500 cy or 1/8 of the 4000 cy of material used in the Tricil proposal.

C. Replace Trash in Slurry Wall Trench Between Sta. 51+70 and 54+00

Tricil has provided a scope of work and cost proposal for work performed on October 2, 7 and 8, 1992 in accordance with Acres' Field Order #8A (Attachment 4). After careful review of Acres' field reports and records, the Tricil proposal is found to be fair and reasonable.

D. Costs for Delays in Schedule

Tricil has provided no text to substantiate or justify these claims for a nine (9) day project extension. The nine (9) day extension request and associated overhead cost are denied.

E. Remove and Dispose of Slurry Pumped to Sediment Basin "B"

This work is currently being evaluated and processed using a separate change order #18. Tricil concurs with this assessment as Tricil has not included any costs for this work in this claim package.

F. Overhead and Profit (O&P)

As per Article 13.5A.2,a., the Contractor's fee shall not exceed a total of twenty percent (ten percent for overhead and ten percent for profit).

Also, sales taxes are reimbursable only as a direct pass through cost, not subject to overhead and profit.

SECTION I SUMMARY OF CLAIM FOR CHANGED SITE CONDITIONS - SLURRY WALL  
FLORENCE LAND RECONTOURING LANDFILL

	TRICIL'S REQUEST	STATE COST RESPONSE	MATERIAL SALES TAX NOT SUBJECT TO O & P*
A) Offsite backfill to replace unsuitable material	\$30,540.53	\$ 3,150.00	\$ 189.00
B) Stabilize and place discarded slurry wall excavated material	63,670.00	7,825.10	133.65
C) Replace trash in slurry wall trench between 51+70 and 54+00	13,987.00	13,734.73	252.27
D) Costs for delays in schedule	64,186.38	-0-	-0-
E) Remove and dispose of slurry pumped to sediment basin "B"	DCR #10	Change Order #18	Change Order #18
F) Overhead and Profit	SUBTOTAL	\$24,709.83	\$ 574.92
	10% Overhead	2,470.98	-0-
	SUBTOTAL	\$27,180.81	\$ 574.92
	10% Profit	2,718.08	-0-
		\$29,898.89	\$ 574.92
		TOTAL	\$30,473.81

\* O & P defined overhead and profit.

Section II. Issues Related to Relocation of Slurry Wall Installation

There are several issues directly related to the relocation of the trench excavation as directed by the State, on September 29, 1992. These are discussed as follows:

A. Relocations

On September 29, 1992 the State directed Tricil to relocate the slurry wall activities. On this day, a letter was issued to Tricil to relocate trench operations beyond the area of concern, specifically Sta. 51+30, and continue trench operations elsewhere along the alignment. Tricil incurred increased costs for the relocation and the standby of the Linkbelt excavator and the four Komatsu dump trucks.

**B. Water Meter Printout at Pugmill**

On Thursday, September 24, 1992, Tricil verbally, and subsequently with a letter (Attachment 5), informed Acres that their water meter and its related printout were not operational. Tricil was given immediate verbal permission, by Acres, to continue work, provided they continue to achieve proper SB backfill slump and that Tricil repair the meter prior to start-up on Monday, September 28, 1992, which is in general agreement with Acres letter dated August 20, 1992 (Attachment 6). This action was taken by Acres, in good faith, to allow the work in progress without undue delay.

This meter and its cumulative printout, is a specified requirement (Section 02169 Part 3.04 C & D) for the soil-bentonite slurry wall work. This information is used both by Tricil for their operational use, and by Acres and the State as a part of the quality assurance program. The pugmill was not repaired until October 2, 1992. Since the pugmill was not fully functional and failed to meet Contract Specifications from September 24, 1992 until October 2, 1992, we consider this to be the primary reason that standby charges for the pugmill, related equipment and labor, are not due for Thursday, September 24, Friday, September 25, and the entire week of September 28, 1992.

**C. Excess Bentonite Slurry Production**

We concur with Tricil's estimate for additional bentonite slurry produced by the Contractor to open a second slurry trench beyond Sta. 0+60, based on our redirection letter of September 29, 1992 (Attachment 7). This secondary trench was our responsibility and the Contractor should be reimbursed for labor, equipment and materials used to provide this additional trench slurry.

**D. Cave-Ins**

On September 30, 1992, Acres issued a letter to Tricil noting that a portion of the slurry wall trench had collapsed sometime between Friday, September 25, 1992 and Monday, September 28, 1992. On September 28, 1992, Acres and Tricil representatives sounded the trench from Sta. 45+60 to 51+30 to determine the extent of any cave-ins. Two cave-in zones at Sta. 50+00 to 50+40 and Sta. 50+80 to 51+20 were found in the area ahead of SB backfill in the unbentched areas where the slurry level in the trench was approximately four (4) feet below the top of trench. Also, over the weekend the site experienced a period of heavy rainfall.

I. Additional IssuesLabor

The State has compared Tricil's certified payroll sheets to the hourly rates proposed in the claim package. All rates have been checked with the exception of Wayne Ten Bruin (Construction Manager) and Jay Bruce (Project Engineer). We will require certification of payroll charges for these two (2) employees prior to contract modification.

Tricil has "double" billed for the linkbelt excavator operators, S. Winzinger and J. Logan. The State will reimburse only one (1) operator. For the purposes of developing a justified cost, we have reimbursed S. Winzinger (the lower rated employee). This will remain until Tricil provides adequate documentation as to which operator was utilized (and when) throughout the Tricil submittal.

Equipment

The State has reviewed Tricil's submitted rates to those provided in "Blue Book" monthly rental rates. Where Tricil's rate exceed those allowable by "Blue Book", Blue Book rates were used. Standby rates are used where appropriate based on the Blue Book.

In performing our estimate, we have excluded the following equipment for reimbursement:

1. Radios 4½ sets of 4 (16)
2. Office/Lunch trailers w/serv.
3. Mechanic's truck w/tools
4. Mechanic's truck
5. Lab trailer
6. Pick-up truck
7. Blazer
8. ATV
9. Pressure washer
10. Aerial lift AT 30C
11. Tool trailers
12. Chain saw

These items are considered part of Tricil's operation and maintenance overhead included in the rental rates and overhead for the primary equipment used at the site.



SECTION 2. SUMMARY OF CLAIM FOR CHANGED SITE CONDITIONS - SLURRY WALL  
FLORENCE LAND RECONTOURING LANDFILL

	STATE COST RESPONSE		
	OPERATING	STANDBY	SALES TAX
A) Relocations	\$ 3,164.56	\$ 1,739.52	\$ 0.00
B) Water Meter Printout at Pugnill	0.00		
C) Excess Bentonite Slurry Production	9,590.66	0.00	380.95
D) Cave-ins	0.00	0.00	0.00
E) Bulkhead	4,083.28	0.00	175.92
F) 6" Trash Pump Repairs	0.00	0.00	0.00
G) Bentonite Slurry Disposal	4,678.54	3,436.32	0.00
H) Demurrage Costs	0.00	0.00	0.00
SUBTOTAL	\$21,517.04	\$ 5,175.84	\$556.87
10% OVERHEAD	2,151.70	517.58	0.00
SUBTOTAL	\$23,668.74	\$ 5,693.42	\$556.87
10% PROFIT	2,366.87	0.00	0.00
	\$26,035.61	\$ 5,693.42	\$556.87
TOTAL			\$32,285.90

## II. Claim Response Summary

Based upon the foregoing review and analysis, we are in a position to recommend that any and all issues relevant to Tricil's Claim for Differing Site Conditions with regard to the slurry wall be settled in the amount of \$62,759.71. The amount of \$62,759.71 can be expressed as the sum of \$30,473.81 for increased quantities of unsuitable materials and \$32,285.90 for relocation of slurry wall installation. We consider this amount to be fair and reasonable in light of all the circumstances.

If acceptable to Tricil, settlement would be effected by way of a change order.

Mr. G. Jarutowicz

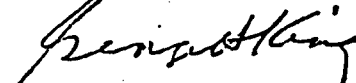
-10-

March 8, 1993

After you have reviewed this package in its entirety, I recommend scheduling a meeting as soon as possible to clarify any outstanding issues, and to come to an agreement upon the settlement of the claim.

Thank you for your attention regarding this matter.

Sincerely,



George King, P.E.  
Bureau Chief  
Bureau of Construction

Attachments

c: J. Reilly, DAG  
T. Allen, BC  
R. Collier, BCM  
D. Posey, BCM  
L. Romino, Treasury  
File: F



State of New Jersey

Christine Todd Whitman  
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.  
Commissioner  
Legal Department

4/3/96

Brett A. Hickman, Esq.  
Laidlaw Environmental Services Inc.  
220 Outlet Pointe Blvd  
Columbia, South Carolina 29210

APR 1 1996

Re: Florence Land Recontouring Landfill Project (FLR)  
Contract A49921  
Pipe-drops and Special Damages

Dear Mr. Hickman:

This is in response to some recent communications between you and Dennis Reinknecht of my staff regarding the failure of the pipe-drop system at the Florence Landfill and the special damages which were assessed against Laidlaw Environmental Services, Inc. for failure to complete the Florence Landfill project on time.

With respect to the pipe-drop issue, I am informed that by telephone conversation with Mr. Reinknecht, you expressed concern that the Department of Environmental Protection (DEP) might include the pipe-drop failure as an issue which must be resolved as part of any overall settlement of the Florence contract between Laidlaw and the DEP. You apparently told Mr. Reinknecht that Laidlaw hoped to settle the pipe-drop issue with Acres International Corporation, without involving the DEP. This is consistent with the position which the DEP has been taking all along. When the pipe-drops failed at Florence in the Fall, 1994, we asked Laidlaw and Acres to determine who was at fault and who would fix them. In response to our request, Laidlaw denied any responsibility for the problem and refused to help fix the pipe-drops. Acres also denied any responsibility for the failure, but, nonetheless, proceeded to fix the pipe-drops at considerable expense to the firm.

Since that time, Acres has apparently been trying to get Laidlaw to discuss issues of liability regarding the pipe-drops, but Laidlaw has apparently refused to meet with Acres. Subsequently, Acres hired Dr. Arnold Lustiger, a expert in piping-joint problems, to perform an analysis of the pipe-drops. A site visit was made on August 24, 1995 to view the four pipe-drops which were repaired and the pipe-drop elbows which had originally been installed and which were still being stored at the site in the collection control building. In attendance were Shawn Wilson from Laidlaw, Dennis Reinknecht from the DEP, William Pomerhn from Acres, and Dr. Lustiger. Dr. Lustiger took the following elbows for analysis 1) PD1-East Bottom; 2) PD3-Bottom of slope; 3) PD3-East Top; 4) PD1-West Bottom. Dr. Lustiger provided a detailed report dated December 27, 1995 analyzing the HDPE elbows and

concluding that the HDPE elbows supplied by Laidlaw through their Manufacturer ADS were made with "substandard joints."

By letter dated January 30, 1996, Acres transmitted a copy of Dr. Lustiger's report to the DEP. Acres has subsequently argued that since the pipe-drop failure was the result of defective or deficient HPDE elbows which were supplied by Laidlaw, the DEP should find Laidlaw liable for the problem and should deduct the costs of repairing the pipe-drops from moneys the DEP still owes Laidlaw. The DEP should then use that money to recompense Acres for fixing the pipe-drops.

Enclosed please find a copy of Dr. Lustiger's report. Please forgive the delay in sending you a copy, but we thought that Acres was going to send you a copy when they sent us one. My staff has reviewed Dr. Lustiger's analysis and conclusions and, on initial review, they seem quite persuasive. I am sure that you will want to have Laidlaw review and respond to the report. At this point, Acres has seemingly established a prima facie case that the DEP should find Laidlaw liable for the pipe-drop failure and should proceed under Laidlaw's contract with the DEP to withhold sufficient funds to recompense Acres for the pipe-drop repairs. If Laidlaw does not respond to Acres' report, we may have to take action accordingly.

It has always been our hope that Laidlaw and Acres would jointly resolve this problem. I hope that you will take advantage of this opportunity to work towards that end. If you would like the DEP to facilitate any discussions between Laidlaw and Acres, please contact me.

With respect to the special damages of \$382,000 assessed by the DEP against Laidlaw, please note these additional damages constitute the actual costs incurred by the DEP as a result of Laidlaw's failure to complete the project on schedule. Laidlaw was required by contract to achieve Substantial Completion by September 27, 1993 and Final Completion by October 28, 1993. Laidlaw actually reached Substantial Completion on February 28, 1994, some 154 days late, and Final Completion on August 19, 1994, some 265 days late.

The \$382,000 in Additional Special Damages were calculated as follows:

Regular Engineering Costs	
November 1993	\$ 61,673.09
December 1993	\$ 76,716.01
January 1994	\$ 44,817.98
February 1994	\$ 65,077.69
March 1994	\$ 32,799.06
April 1994	\$ 25,865.61
May 1994	\$ 23,196.40
Subtotal	\$330,145.84

The DEP incurred \$330,145.84 in engineering costs for Acres' personnel for the seven additional months it took Laidlaw to complete the work. Please note that the DEP has not included Acres' engineering fees for June, July and August 1993 in this assessment of special damages since the DEP would have incurred three months of engineering costs in the normal course of concluding Laidlaw's construction contract. Copies of the invoices received from Acres and paid by the DEP for the months of November 1993 through May 1994 are enclosed for your review.

In addition to the engineering costs of late completion, Laidlaw is also liable for costs of Acres' personnel and DEP staff incurred as a result of Laidlaw working on Saturdays and Holidays during the course of the contract. Enclosed are Saturday and Holiday Schedule tracking sheets. Also enclosed as samples of the backup documentation we can provide for this assessment are personnel time sheets and relevant correspondence for Saturday, October 10th and Columbus Day, October 12, 1992. The total damages due to the DEP for Saturday and Holiday work is \$52,032.39.

Additional Engineering Costs	\$330,145.84
Saturday and Holiday Work	<u>\$ 52,032.39</u>
Total Additional Special Damages	\$382,178.23

In addition to the pipe-drop problem and the special damages assessment, there are a number of other outstanding issues between Laidlaw and the DEP which warrant discussion. I would like to schedule a meeting at my office next month with the goal of resolving these issues. Mr. Reinknecht will contact you in the next week to schedule the meeting. In addition, if you require any additional backup documentation please call Mr. Dennis Reinknecht at 609-984-2991.

Sincerely,

  
George King, P.E., Chief  
Bureau of Construction

c. A.Farro  
B.Weltman  
T.Allen  
D.Faherty  
File:FLRLPDI

## **Attachment IV**

# INVOICE SUMMARY

## ACRES INTERNATIONAL CORPORATION

### FLORENCE LAND RECONTOURING LANDFILL PROJECT

INVOICE	TOTAL	RETAINAGE	AMOUNT PAID
November 1991	\$22,560.30	\$2,256.03	\$20,304.27
December 1991	19,435.12	1,943.51	17,491.61
January 1992	33,075.53	3,307.55	29,767.98
February 1992	27,736.95	2,773.70	24,963.25
March 1992	49,654.50	4,965.45	44,689.05
April 1992	69,096.08	6,909.61	62,186.47
May 1992	74,760.43	7,476.04	67,284.39
June 1992	83,554.03	8,355.40	75,198.63
July 1992	81,085.84	8,108.58	72,977.23
August 1992	93,355.02	9,335.50	84,019.52
September 1992	106,746.54	10,674.65	96,071.89
October 1992	115,481.68	11,548.17	103,933.51
November 1992	100,370.00	10,037.00	90,333.00
December 1992	82,397.56	8,239.76	74,157.80
January 1993	93,748.79	9,374.88	84,373.91
February 1993	74,562.11	7,456.21	67,105.90
March 1993	94,342.28	9,434.23	84,908.05
April 1993	99,193.05	9,919.31	89,273.74
May 1993	96,717.29	9,671.73	87,045.56
June 1993	78,022.50	7,802.25	70,220.25
July 1993	90,767.90	9,076.79	81,691.11
August 1993	95,085.50	9,508.55	85,576.95
September 1993	104,737.15	10,473.71	94,263.44
October 1993	86,186.88	8,618.68	77,568.20
November 1993	61,673.09	6,167.31	55,505.78
December 1993	76,716.01	7,671.60	69,044.41
January 1994	44,817.98	4,481.80	40,336.18
February 1994	65,077.69	6,507.77	58,569.92
March 1994	32,799.06	3,279.91	29,519.15
April 1994	25,865.61	2,586.56	23,279.05
May 1994	23,196.40	2,319.64	20,876.76
June 1994	21,817.94	2,181.79	19,636.15
July 1994	24,946.57	2,494.66	22,451.91
August 1994	21,378.83	2,137.88	19,240.95
September 1994	13,894.54	1,389.45	12,505.09
<b>TOTAL:</b>	<b>2,284,856.75</b>	<b>228,485.66</b>	<b>2,056,371.06</b>

NEW JERSEY DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FLORENCE RECONTOURING LANDFILL  
SUMMARY MANHOURS/  
MANHOUR FEES

SEPTEMBER 1991 PLAN  
WITH NOVEMBER 1991 START

ACRES INTERNATIONAL CORPORATION

REPORT DATE -----> 08/04/94  
FOR MONTH NUMBER ---> 32  
FOR MONTH ENDING ----> 06/30/94

MONTH NUMBER -->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT		1991		1992					1992						1992	1993						
DATE -->		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
*****																						
SUMMARY HOME OFFICE																						
PROJECT MANAGEMENT	PLANNED	20	202	342	314	286	294	278	266	274	266	266	274	266	266	278	286	276	286	188	158	142
	ACTUAL	161.5	179.5	388	387	369.5	272.5	201	272.5	261	335	326	358	262	223	285	282	295.5	284.5	281	213	279.5
CIVIL/ ARCHITECTURAL	PLANNED	20	34	34	49	94	92	62	52	42	32	22	15	32	30	17	0	0	27	37	47	17
	ACTUAL	0	0	3.5	0	1	3	3	0.5	4	5	5.5	24.5	2	4.5	29.5	0	26.5	47	44	33	78.5
GEOTECHNICAL	PLANNED	0	26	82	240	172	153	120	104	116	80	80	116	80	88	96	32	28	28	34	34	8
	ACTUAL	0	2	0	0	73	145	14	54.5	44.5	73.5	106.5	118.5	90.5	121.5	203.5	274.5	345.5	228	133.5	18	9.5
ELECTRICAL	PLANNED	0	0	10	22	42	51	42	41	32	26	16	16	16	11	12	26	27	31	52	31	2
	ACTUAL	0	3	0	0	3	2	4	0	2	22	30	4	0	10	22	30	29	20	19	12.5	12
MECHANICAL/ DRAFTING	PLANNED	20	260	150	80	130	130	130	116	96	96	65	50	60	45	40	40	140	175	170	100	0
	ACTUAL	212.5	87.5	77	14	9.5	0	9	28.5	2.5	48	24	29	32.5	116.5	110	68	54	84.5	38.5	50.5	118.5
ENVIRONMENTAL/ HYDRAULICS	PLANNED	20	80	70	120	85	70	70	42	42	52	42	32	27	27	27	27	37	32	35	28	10
	ACTUAL	19.5	69	95.5	46.5	100.5	32.5	104	67.5	1.5	66	51.5	19.5	15	7	62	36.5	28.5	32.5	6.5	6	8
SUBTOTAL HOME OFFICE																						
	PLANNED	80	602	688	825	809	790	702	621	602	552	491	503	481	467	470	411	508	579	516	398	179
	ACTUAL	393.5	341	564	447.5	556.5	455	335	423.5	315.5	549.5	543.5	553.5	402	482.5	712	691	779	696.5	522.5	333	504
FIELD SERVICES																						
	PLANNED	0	0	0	680	840	945	1150	1250	1360	1310	1260	1310	1260	1260	1050	840	1095	990	840	1040	670
	ACTUAL	0	0	0	40	384.5	810.5	828	886.5	1092	1154	1260	1548	1237.5	904.5	759.5	687.5	829	1000.5	1009.5	1147.5	1079.5
TOTAL																						
	PLANNED	80.0	602.0	688.0	1505.0	1649.0	1735.0	1852.0	1871.0	1962.0	1862.0	1751.0	1813.0	1741.0	1727.0	1520.0	1251.0	1603.0	1569.0	1356.0	1438.0	849.0
	ACTUAL	393.5	341.0	564.0	487.5	941.0	1265.5	1163.0	1310.0	1407.5	1703.5	1803.5	2101.5	1639.5	1387.0	1471.5	1378.5	1608.0	1697.0	1532.0	1480.5	1583.5



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MONTH NUMBER -->		22	23	24	25	26	27	28	29	30	31	32	***** HOURS *****		**MAN HOUR COSTS**	
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$
SUMMARY HOME OFFICE																
PROJECT MANAGEMENT	PLANNED	0	0	0	0	0	0	0	0	0	0	0	5,228	5,228	\$109,025	\$109,025
	ACTUAL	194.5	229	250.5	165.5	153	224.5	227.5	331.5	204	221.5	176	8,295		\$198,665	
CIVIL/ ARCHITECTURAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	755	755	\$15,059	\$15,059
	ACTUAL	81	44	11	0	1	4	6	46	74	100	135	815		\$13,407	
GEOTECHNICAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1,717	1,717	\$38,076	\$38,076
	ACTUAL	52.5	71	120.5	9.5	0	31	16	0	53.5	0	42.5	2,453		\$51,898	
ELECTRICAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	506	506	\$10,952	\$10,952
	ACTUAL	14	39.5	34	18	4	18	29	43	12	2	5	443		\$10,057	
MECHANICAL/ DRAFTING	PLANNED	0	0	0	0	0	0	0	0	0	0	0	2,093	2,093	\$36,814	\$36,814
	ACTUAL	169	152.5	150	124	82.5	59	103	75	48.5	14.5	44	2,237		\$40,469	
ENVIRONMENTAL/ HYDRAULICS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	975	975	\$20,202	\$20,202
	ACTUAL	13	4	4.5	8	1	0	0	25	0	0	0	931		\$18,606	
SUBTOTAL HOME OFFICE	PLANNED	0	0	0	0	0	0	0	0	0	0	0	11,274	11,274	\$230,128	\$230,128
	ACTUAL	524	540	570.5	325	241.5	336.5	381.5	520.5	392	338	402.5	15,173		\$331,101	
FIELD SERVICES	PLANNED	0	0	0	0	0	0	0	0	0	0	0	19,150	19,150	\$374,300	\$374,300
	ACTUAL	1131.5	1158.5	883	849.5	996	523.5	364	8	0	0	0	22,573		\$398,137	
TOTAL	PLANNED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30,424	30,424	\$604,428	\$604,428
	ACTUAL	1655.5	1698.5	1453.5	1174.5	1237.5	860.0	745.5	528.5	392.0	338.0	402.5	37,745		\$729,238	

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MONTH NUMBER -->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT DATE -->		1991 NOV	1991 DEC	1992 JAN	1992 FEB	1992 MAR	1992 APR	1992 MAY	1992 JUNE	1992 JUL	1992 AUG	1992 SEP	1992 OCT	1992 NOV	1992 DEC	1993 JAN	1993 FEB	1993 MAR	1993 APR	1993 MAY	1993 JUNE	1993 JUL
PROJECT MANAGEMENT																						
LAMB	PLANNED		8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
	ACTUAL	16	10	11	7	9	4	5	3	13	5	11	9	10	5	9	7	10	11	19	7	6
POMERHN	PLANNED		16	40	56	48	56	40	28	36	28	28	36	28	28	40	48	48	48	40	40	32
	ACTUAL	24	42	56	36	41	12	41.5	50	50	54	49.5	72	40.5	35	31.5	65	58.5	48.5	47.5	26.5	37
ZAMOJSKI	PLANNED	10	58	74	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	80	72
	ACTUAL	25	34	102	117	135	153	78.5	130	143	167	159	159	131	99	135	140	152	138	126	97.5	144
TILGHMAN	PLANNED	10	50	90	20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL	83	58	160.5	154	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
KAPALCZYNSKI	PLANNED			10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	20	0	0	0
	ACTUAL		4	0	7	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0
BARRETT (1)	PLANNED		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	20	20	0	0	0
	ACTUAL		0	0	0	0	0	0	0	15.5	0	0	4	0	1	1	0	0	0	17.5	0	0
WILLIAMS	PLANNED			30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	20	20	10	10
	ACTUAL		0	2	0	0	0	0	0	0	1.5	1.5	0	0	0	0	7	3.5	2.5	0	0	0
BUCHANAN	PLANNED		40	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	30	20	20
	ACTUAL	13.5	31.5	56.5	66	104.5	103.5	76	85.5	39	107.5	105	114	80.5	83	108.5	63	70.5	84.5	71	82	92.5
MILLER (2)	PLANNED				10	10	10	10	10	10	10	10	10	10	10	10	10	10	20	0	0	0
	ACTUAL		0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	0	1	0	0	0	0
TOTAL	PLANNED	20	202	342	314	286	294	278	266	274	266	266	274	266	266	278	286	276	286	188	158	142
	ACTUAL	161.5	179.5	388	387	369.5	272.5	201	272.5	261	335	326	358	262	223	285	282	295.5	284.5	281	213	279.5

TOTAL COST INCLUDES ESCALATION OF 5% PER ANNUM BASED ON 1991 RATES  
AVERAGE HOURLY RATE IS TOTAL COST DIVIDED BY TOTAL HOURS

(1) WAS DEFAZIO; BARRETT FROM 5/92  
(2) WAS HENKE; MILLER FROM 5/92

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SUMMARY MANHOURS/ MANHOUR FEES													***** HOURS *****		**MAN HOUR COSTS**		1991	AVG	LEVEL
MONTH NUMBER -->		22	23	24	25	26	27	28	29	30	31	32	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$	HOURLY RATE \$/HR	HOURLY RATE \$/HR	
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN							
PROJECT MANAGEMENT																			
LAMB	PLANNED	0	0	0	0	0	0	0	0	0	0	0	160	160	\$6,634	\$6,634	\$38.90	\$41.46	P4
	ACTUAL	2	10	7	9	8	9	16	14	7	6	2	277		\$10,785				
POMERHN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	764	764	\$24,034	\$24,034	\$29.42	\$31.46	P4
	ACTUAL	30.5	43	26	34.5	42.5	50	27	22	25	38	20	1,277		\$39,971				
ZAMOJSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1,734	1,734	\$48,848	\$48,848	\$26.42	\$28.17	P3
	ACTUAL	113	107	116	75	68.5	91	91	57	56	19	42	3,401		\$96,045				
TILGHMAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	170	170	\$4,233	\$4,233	\$24.12	\$24.90	T3
	ACTUAL	0	0	0	0	0	0	8	152	83.5	130	98.5	1,008		\$25,763				
KAPALCZYNSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	170	170	\$1,938	\$1,938	\$10.70	\$11.40	T1
	ACTUAL	0	0	4	0	7	6	23	21	0	0	0	76		\$878				
BARRETT (1)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	490	490	\$5,276	\$5,276	\$10.18	\$10.77	T1
	ACTUAL	0	6.5	3	0	0	0	0	0	0	0	0	49		\$391				
WILLIAMS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	510	510	\$5,439	\$5,439	\$10.01	\$10.67	T1
	ACTUAL	2.5	5.5	0	0	0	0	0	0	0.5	0	6.5	33		\$347				
BUCHANAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1,070	1,070	\$10,957	\$10,957	\$9.63	\$10.24	T1
	ACTUAL	46.5	49.5	66.5	38.5	21.5	63.5	49.5	57	29.5	21.5	7	2,089		\$21,550				
MILLER (2)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	160	160	\$1,665	\$1,665	\$9.76	\$10.41	T1
	ACTUAL	0	7.5	28	8.5	5.5	5	13	8.5	2.5	7	0	87		\$935				
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	5,228	5,228	\$109,025	\$109,025		\$20.85	
	ACTUAL	194.5	229	250.5	165.5	153	224.5	227.5	331.5	204	221.5	176	8,295		\$196,665				

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MONTH NUMBER --->	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT	1991	1991	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1993	1993	1993	1993	1993	1993	1993
DATE -->	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
CIVIL/ARCHITECTURAL																					
MONIN (1)		4	4	4	4	2	2	2	2	2	2	0	2	0	2	0	0	2	2	2	2
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	0	0	0	0
SWIERSKI	20	30	10	10	20	20	20	20	0	10	10	5	10	10	5	0	0	10	10	10	10
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWELL							0	10	20	10	0	0	0	0	0	0	0	0	0	10	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MALEJS					10	20	10	10	10	0	0	0	0	0	0	0	0	0	10	5	5
			3.5	0	1	3	3	0.5	4	5	5.5	5.5	2	4.5	15.5	0	2.5	14	2	0	1.5
MRUK			5	15	20	10	10	0	10	10	0	0	10	10	0	0	0	5	5	10	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ADLER			15	20	40	40	20	10	0	0	10	10	10	10	10	0	0	10	10	10	0
		0	0	0	0	0	0	0	0	0	0	19	0	0	13	0	21	33	42	33	75
TOTAL	20	34	34	49	94	92	62	52	42	32	22	15	32	30	17	0	0	27	37	47	17
	0	0	3.5	0	1	3	3	0.5	4	5	5.5	24.5	2	4.5	29.5	0	26.5	47	44	33	76.5

(1) WAS ARGAUER; MONIN FROM 2/93

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SUMMARY MANHOURS MANHOUR FEES													***** HOURS *****		**MAN HOUR COSTS**		1991	AVG	LEVEL
MONTH NUMBER -->		22	23	24	25	26	27	28	29	30	31	32	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$	HOURLY RATE \$/HR	HOURLY RATE \$/HR	
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN							
*****																			
CIVIL/ARCHITECTURAL																			
MONIN (1)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	40	40	\$1,290	\$1,290	\$30.49	\$32.28	P4
	ACTUAL	1	0	0	0	0	0	0	0	0	0	0	5		\$136				
SWIERSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	240	240	\$5,282	\$5,282	\$20.97	\$22.01	P3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0		\$0				
POWELL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	50	50	\$1,175	\$1,175	\$22.15	\$23.49	P3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0		\$0				
MALEJS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	80	80	\$1,813	\$1,813	\$21.32	\$22.67	P3
	ACTUAL	1	0	0	0	0	2	0	0	0	0	1	77		\$1,716				
MRUK	PLANNED	0	0	0	0	0	0	0	0	0	0	0	120	120	\$2,089	\$2,089	\$16.44	\$17.41	P1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0		\$0				
ADLER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	225	225	\$3,411	\$3,411	\$14.31	\$15.16	P1
	ACTUAL	79	44	11	0	1	2	6	46	74	100	134	733		\$11,554				
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	755	755	\$15,059	\$15,059		\$19.95	
	ACTUAL	81	44	11	0	1	4	6	46	74	100	135	815		\$13,407				

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MONTH NUMBER -->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT		1991		1992					1992						1992	1993						
DATE -->		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
*****																						
GEOTECHNICAL																						
BOND	PLANNED		10	16	24	24	32	24	16	32	16	16	32	16	16	16	4	4	4	4	4	
	ACTUAL		0	0	0	11	12	4	5	0	0	0	0	0	0	0	16	9	8	2	0	
BALTZ	PLANNED		16	24	48	80	65	40	40	40	20	20	40	20	20	20	8	4	4	10	10	
	ACTUAL		2	0	0	39.5	14.5	10	41.5	44.5	73.5	106.5	114.5	90.5	84.5	40.5	57.5	47	59.5	30.5	8	
ISLER	PLANNED				4	4	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	4	
BAKER	PLANNED			12	40	20	8	8	0	0	0	0	0	0	8	16	0	0	0	0	0	
	ACTUAL		0	0	0	5	19	0	0	0	0	0	0	0	0	2	38	20	24	59	0	
PERKINS	PLANNED			20	80			0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL		0			17.5	99.5	0	8	0	0	0	0	0	24	160	163	202	124	42	6	
AHMAD	PLANNED			10	44	44	44	44	44	44	44	44	44	44	44	44	20	20	20	20	0	
	ACTUAL		0	0	0	0	0	0	0	0	0	0	4	0	13	0	0	0	0	0	5	
MANNERBERG	PLANNED																					
	ACTUAL																	67.5	14.5	0	0	
TOTAL	PLANNED	0	26	82	240	172	153	120	104	116	80	80	116	80	88	96	32	28	28	34	34	
	ACTUAL	0	2	0	0	73	145	14	54.5	44.5	73.5	106.5	118.5	90.5	121.5	203.5	274.5	345.5	228	133.5	18	

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MONTH NUMBER -->													***** HOURS *****		**MAN HOUR COSTS**		1991	AVG	LEVEL
													JOB		JOB		HOURLY	HOURLY	
													TO DATE	TOTAL	TO DATE	TOTAL	RATE	RATE	
													\$	\$	\$	\$	/HR	/HR	
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TO DATE	TOTAL	\$	\$	/HR	/HR	
-----																			
GEOTECHNICAL																			
BOND	PLANNED	0	0	0	0	0	0	0	0	0	0	0	314	314	\$10,101	\$10,101	\$30.49	\$32.17	P4
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	65		\$2,076				
BALTZ	PLANNED	0	0	0	0	0	0	0	0	0	0	0	533	533	\$12,724	\$12,724	\$22.64	\$23.87	P3
	ACTUAL	8.5	11	0	0	0	0	0	0	0	0	0	889		\$21,167				
ISLER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	20	20	\$505	\$505	\$24.06	\$25.26	P3
	ACTUAL	38	0	0	0	0	0	0	0	0	0	0	43		\$1,140				
BAKER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	112	112	\$2,573	\$2,573	\$21.72	\$22.87	P2
	ACTUAL	0	25	29	0	0	0	0	0	0	0	0	221		\$5,164				
PERKINS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	100	100	\$1,896	\$1,896	\$18.06	\$18.96	P2
	ACTUAL	4	8	0	0	0	0	0	0	0	0	0	858		\$18,435				
AHMAD	PLANNED	0	0	0	0	0	0	0	0	0	0	0	638	638	\$10,277	\$10,277	\$15.17	\$16.11	P1
	ACTUAL	2	27	0	0	0	0	0	0	0	0	0	51		\$839				
MANNERBERG	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$0.00	N/A	P1
	ACTUAL	0	0	91.5	9.5	0	31	16	0	53.5	0	42.5	326		\$5,077				
-----																			
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1717	1717	\$38,076	\$38,076		\$22.18	
	ACTUAL	52.5	71	120.5	9.5	0	31	16	0	53.5	0	42.5	2452.5		\$51,898				

NEW JERSEY DEPARTMENT OF  
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FLORENCE RECONTOURING LANDFILL  
SUMMARY MANHOURS/  
MANHOUR FEES

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WITH NOVEMBER 1991 START

ACRES INTERNATIONAL CORPORATION

REPORT DATE -----> 08/04/94  
FOR MONTH NUMBER ---> 32  
FOR MONTH ENDING ----> 06/30/94

MONTH NUMBER --->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT		1991		1992					1992						1992	1993						
DATE -->		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
ELECTRICAL																						
ALI	PLANNED				2	2	1	2	1	2	1	1	1	1	1	2	1	2	1	2	1	2
	ACTUAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DOYLE	PLANNED			10	10	20	20	20	20	20	0	10	5	5	5	5	10	20	20	40	20	0
	ACTUAL		3	0	0	3	2	4	0	2	22	30	4	0	10	18	30	29	20	19	12.5	12
KUJAWA	PLANNED				10	20	20	20	20	10	15	5	5	5	5	5	5	5	10	10	10	0
	ACTUAL		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCHARF	PLANNED						10	0	0	0	10	0	5	5	0	0	10	0	0	0	0	0
	ACTUAL				0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0
TOTAL	PLANNED	0	0	10	22	42	51	42	41	32	26	16	16	16	11	12	26	27	31	52	31	2
	ACTUAL	0	3	0	0	3	2	4	0	2	22	30	4	0	10	22	30	29	20	19	12.5	12

(1) WAS JEX; ALI FROM 2/93

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MANHOURLY FEES													***** HOURS *****		**MAN HOUR COSTS**		1991	AVG	LEVEL	
MONTH NUMBER -->		22	23	24	25	26	27	28	29	30	31	32	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$	HOURLY RATE \$/HR	HOURLY RATE \$/HR		
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN								
ELECTRICAL																				
ALI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	26	26	\$936	\$936	\$33.57	\$35.99	P4	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0					
DOYLE	PLANNED	0	0	0	0	0	0	0	0	0	0	0	260	260	\$5,868	\$5,868	\$21.03	\$22.57	T3	
	ACTUAL	14	39.5	34	18	4	18	29	43	12	2	5	439		\$9,970					
KUJAWA	PLANNED	0	0	0	0	0	0	0	0	0	0	0	180	180	\$3,312	\$3,312	\$17.31	\$18.40	P2	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0					
SCHARF	PLANNED	0	0	0	0	0	0	0	0	0	0	0	40	40	\$835	\$835	\$19.64	\$20.88	T3	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	4		\$87					
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	506	506	\$10,952	\$10,952		\$21.64		
	ACTUAL	14	39.5	34	18	4	18	29	43	12	2	5	443		\$10,057					

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MONTH NUMBER -->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
		1991		1992					1992						1992	1993						
DEPARTMENT	DATE -->	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
MECHANICAL and DRAFTING																						
STEUERNAGEL	PLANNED			10	10	20	20	20	16	16	16	10	5	5	10	5	5	10	15	20	10	0
	ACTUAL		3	4.5	0	3.5	0	0	1.5	0	30.5	22	24	15	31	39	18.5	22	22	20.5	33	44.5
TARBELL	PLANNED			10	20	20	20	20	20	20	20	10	10	10	10	10	20	30	30	40	20	0
	ACTUAL		0	0	0	0	0	0	5	0	7.5	1	0	0	0	0	0	0	0	0	0	0
SHORT	PLANNED			10	20	20	20	20	20	20	20	10	10	10	0	10	0	10	10	10	10	0
	ACTUAL		0	0	0	0	0	0	0	0	9	0	0	0	2	0	0	0	0	0	0	0
DELL'ISOLA (1)	PLANNED														0	0	0	0	0	0	0	
	ACTUAL														0	7.5	0.5	2.5	7.5	3	17.5	68
MAZURKIEWICZ	PLANNED	20	20	20	20	40	40	40	40	20	20	20	20	20	10	10	10	20	40	20	10	0
	ACTUAL	2	7	8	7	6	0	2	10	2	1	1	4	5.5	4	5	2	6	29	9	0	0
NEWBERRY (2)	PLANNED		120	40			10	0	10	0	10	0	0	0	0	0	0	20	20	20	10	0
	ACTUAL				0	0	0	0	0	0	0	0	0	0	57	49.5	44	0	1	0	0	0
BURKE	PLANNED					10		0	0	10	0	0	0	10	0	0	0	20	20	20	10	0
	ACTUAL	68		0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BYRNE/KIBLER (4)	PLANNED				0	0	0	10	0	0	0	10	0	0	10	0	0	20	20	20	10	0
	ACTUAL	115.5	68.5	34.5	7	0	0	7	12	0.5	0	0	1	12	0	0	1	0	0	0	0	0
JARACZ	PLANNED		80	40	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL	27	9	2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LUKASIEWICZ (5)	PLANNED		40	20	10	20	20	20	10	10	10	5	5	5	5	5	5	10	20	20	20	0
	ACTUAL		0	7	0	0	0	0	0	0	0	0	0	0	0	9	2	5.5	3	2	0	0
RICHARDSON (3)	PLANNED					0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL			21		0	0	0	0	0	0	0	0	0	0	0	0	18	22	4	0	0
OGLETREE (5)	PLANNED																					0
	ACTUAL																					6
TOTAL	PLANNED	20	260	150	80	130	130	130	116	96	96	65	50	60	45	40	40	140	175	170	100	0
	ACTUAL	212.5	87.5	77	14	9.5	0	9	28.5	2.5	48	24	29	32.5	116.5	110	68	54	84.5	38.5	50.5	118.5

(1) DELL'ISOLA ADDED 12/92; FOR TARBELL  
(2) WAS GALA; NEWBERRY FROM 12/92

(3) RICHARDSON ADDED 1/92  
(4) WAS BYRNE; KIBLER FROM 12/92;  
BYRNE FROM 8/93

(5) OGLETREE ADDED 5/93;  
LUKASIEWICZ RECLASSIFIED AS TECHNICIAN

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NEW JERSEY DEPARTMENT OF  
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MANHOURLY FEES													***** HOURS *****		**MAN HOUR COSTS**		1991	AVG	LEVEL
MONTH NUMBER -->		22	23	24	25	26	27	28	29	30	31	32	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$	HOURLY RATE \$/HR	HOURLY RATE \$/HR	
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN							
MECHANICAL and DRAFTING																			
STEUERNAGEL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	223	223	\$6,360	\$6,360	\$26.77	\$28.52	P3
	ACTUAL	39	38	44.5	37	31.5	24	40.5	5.5	20.5	0.5	7	623		\$17,947				
TARBELL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	340	340	\$6,524	\$6,524	\$17.88	\$19.19	P2
	ACTUAL	0	0	0	0	2	0	0	0	0	0	0	16		\$293				
SHORT	PLANNED	0	0	0	0	0	0	0	0	0	0	0	230	230	\$3,564	\$3,564	\$14.60	\$15.50	P1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	11		\$169				
DELL'ISOLA (1)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$12.82	N/A	P1
	ACTUAL	129.5	114.5	101.5	84	35	30	58.5	41.5	16	4	5	749		\$10,290				
MAZURKIEWICZ	PLANNED	0	0	0	0	0	0	0	0	0	0	0	460	460	\$8,635	\$8,635	\$17.74	\$18.77	T3
	ACTUAL	0	0	1	0	0	1	1	0	1	0	18	133		\$2,493				
NEWBERRY (2)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	260	260	\$4,764	\$4,764	\$17.60	\$18.32	T3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	152		\$1,862				
BURKE	PLANNED	0	0	0	0	0	0	0	0	0	0	0	100	100	\$1,859	\$1,859	\$17.11	\$18.59	T3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	68		\$1,163				
BYRNE/KIBLER (4)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	100	100	\$1,392	\$1,392	\$12.81	\$13.92	T2
	ACTUAL	0.5	0	3	3	0	1	0	0	2	0	0	269		\$3,459				
JARACZ	PLANNED	0	0	0	0	0	0	0	0	0	0	0	120	120	\$1,302	\$1,302	\$10.67	\$10.85	T2
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	38		\$407				
LUKASIEWICZ (5)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	260	260	\$2,414	\$2,414	\$8.77	\$9.28	T1
	ACTUAL	0	0	0	0	14	3	3	28	9	10	14	110		\$1,291				
RICHARDSON (3)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$14.69	N/A	T1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	65		\$1,044				
OGLETREE (5)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$7.85	N/A	T1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	6		\$52				
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	2093	2093	\$36,814	\$36,814		\$17.59	
	ACTUAL	169	152.5	150	124	82.5	59	103	75	48.5	14.5	44	2236.5		\$40,469				

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MONTH NUMBER -->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT DATE -->		1991 NOV	1991 DEC	1992 JAN	1992 FEB	1992 MAR	1992 APR	1992 MAY	1992 JUNE	1992 JUL	1992 AUG	1992 SEP	1992 OCT	1992 NOV	1992 DEC	1993 JAN	1993 FEB	1993 MAR	1993 APR	1993 MAY	1993 JUNE	1993 JUL
ENVIRONMENTAL																						
STACHOWSKI	PLANNED			20	40	20	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
	ACTUAL		0	26.5	20	10.5	12.5	46	16	0	47.5	0	0.5	0	2	31	1.5	0.5	0.5	0.5	0	0
TABIB	PLANNED				20	20	40	40	20	20	20	20	10	10	10	10	10	10	10	5	5	0
	ACTUAL		0	0	0	0	0	0	3	0	0	0	0	0	0	22	20	8.5	15	0	6	0
HEMPEL	PLANNED			20	40	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL						1	46	15	0	16	12	0	6	5	4	5	4	4	0	0	0
GAULRAPP (1)	PLANNED							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL					34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HYDRAULICS																						
COTRONEO	PLANNED			10	10	10	5	10	2	2	2	2	2	2	2	2	2	2	2	5	8	0
	ACTUAL		0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
WOLCOTT	PLANNED	20	80	20	10	15	10	10	0	10	10	10	10	0	5	5	5	5	10	10	5	0
	ACTUAL	19.5	69	59	18.5	55	19	11.5	33.5	1.5	2.5	39	19	9.5	0	5	10	15.5	13	6	0	3
TOLMAN	PLANNED						5	0	10	0	0	0	0	5	0	0	0	0	5	0	0	0
	ACTUAL				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BENSON	PLANNED					20	0	0	0	0	10	0	0	0	0	0	0	10	0	0	0	0
	ACTUAL			10	7	0	0	0.5	0	0	0	0.5	0	0	0	0	0	0	0	0	0	0
TOTAL		20	80	70	120	85	70	70	42	42	52	42	32	27	27	27	27	37	32	35	28	10
		19.5	69	95.5	46.5	100.5	32.5	104	67.5	1.5	66	51.5	19.5	15	7	62	36.5	28.5	32.5	6.5	6	8

(1) GAULRAPP ADDED 3/92

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SUMMARY MANHOORS, MANHOUR FEES													***** HOURS *****		**MAN HOUR COSTS**		1991	AVG	LEVEL
MONTH NUMBER -->		22	23	24	25	26	27	28	29	30	31	32	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$	1991 HOURLY RATE \$/HR	AVG HOURLY RATE \$/HR	
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN							
*****																			
ENVIRONMENTAL																			
STACHOWSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	240	240	\$5,643	\$5,643	\$22.07	\$23.51	P2
	ACTUAL	0	0	3.5	0	0	0	0	0	0	0	0	219		\$4,933				
TABIB	PLANNED	0	0	0	0	0	0	0	0	0	0	0	280	280	\$5,078	\$5,078	\$17.12	\$18.14	P2
	ACTUAL	0	0	0	2	0	0	0	0	0	0	0	77		\$1,436				
HEMPEL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	60	60	\$918	\$918	\$14.57	\$15.30	P2
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	118		\$1,811				
GAULRAPP (1)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$12.82	N/A	P1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	34		\$446				
HYDRAULICS																			
COTRONEO	PLANNED	0	0	0	0	0	0	0	0	0	0	0	80	80	\$2,236	\$2,236	\$26.28	\$27.96	P2
	ACTUAL	0	0	0	1	1	0	0	13	0	0	0	22		\$630				
WOLCOTT	PLANNED	0	0	0	0	0	0	0	0	0	0	0	250	250	\$5,122	\$5,122	\$19.73	\$20.49	P2
	ACTUAL	13	4	1	5	0	0	0	0	0	0	0	432		\$8,784				
TOLMAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	25	25	\$535	\$535	\$20.19	\$21.41	P2
	ACTUAL	0	0	0	0	0	0	0	12	0	0	0	12		\$267				
BENSON	PLANNED	0	0	0	0	0	0	0	0	0	0	0	40	40	\$670	\$670	\$15.75	\$16.74	P1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	18		\$298				
-----																			
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	975	975	\$20,202	\$20,202		\$20.72	
	ACTUAL	13	4	4.5	8	1	0	0	25	0	0	0	931		\$18,606				

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MONTH NUMBER -->		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT		1991	1991	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1992	1993	1993	1993	1993	1993	1993	1993
DATE -->		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
FIELD SERVICES																						
TILGHMAN	PLANNED				210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	ACTUAL		0	0	0	96	203	192.5	216.5	167.5	167.5	182	282	221.5	174.5	192.5	182.5	209.5	156	190	216.5	172.5
PERKINS	PLANNED				105	210	210	210	210	210	210	210	210	210	210	105	0	0	0	0	0	0
	ACTUAL		0	0	0	0	0	0	0	166	198	240	292	236	151.5	0	0	0	0	0	0	0
BAKER	PLANNED							0	0	0	0	0	0	0	0	0	105	210	0	0	0	0
	ACTUAL					0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	0	0
MALEJS	PLANNED							100	100	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CIVIL INSP (HOLBERT)	PLANNED						105	210	210	210	210	210	210	210	210	210	105	105	210	210	210	0
	ACTUAL				40	231	194.5	200.5	221.5	230	211	214	241.5	206	196.5	191	143	208	214	212.5	233	215.5
CIVIL INSP (NEWBERRY)	PLANNED								0	210	210	210	210	210	210	105	0	0	0	0	0	0
	ACTUAL						0	0	0	95	165.5	222.5	260	181.5	11.5	0	0	0	0	0	0	0
GAULRAPP (1)	PLANNED				105	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	0
	ACTUAL		0	0	0	57.5	209.5	204	228.5	235.5	221	215.5	262	216	188	204.5	190	206	231.5	221.5	257.5	224
TARBELL/DELL'ISOLA	PLANNED							0	50	50	0	0	0	0	0	0	0	0	50	0	100	100
	ACTUAL					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.5
DOYLE	PLANNED							0	0	50	50	0	0	0	0	0	0	100	100	0	100	100
	ACTUAL					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27.5
RIDLEY* secretary	PLANNED				210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210
	ACTUAL		0	0	0	0	203.5	185	204	198	191	186	210.5	176.5	182.5	171.5	172	205.5	191	177	195	184.5
STACHOWSKI	PLANNED				50			0	50	0	0	0	50	0	0	0	0	50	0	0	0	50
	ACTUAL		0			0	0	46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANNERBERG (2)	PLANNED																					
	ACTUAL																	0	0	0	0	0
TOTAL	PLANNED	0	0	0	680	840	945	1150	1250	1360	1310	1260	1310	1260	1260	1050	840	1095	990	840	1040	670
	ACTUAL	0	0	0	40	385	811	828	887	1092	1154	1260	1548	1238	905	760	688	829	1001	1010	1148	1080

HOURS BASED ON 21 WORKING DAYS/MONTH @ 10 HRS/DAY.

\* PREMIUM OVERTIME PAID (TIME AND A HALF); HOURLY RATE = BASE RATE X 1.1

(1) WAS HEMPEL; GAULRAPP FROM 3/92

(2) MANNERBERG ADDED 2/93

NEW JERSEY DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FLORENCE RECONTOURING LANDFILL  
SUMMARY MANHOURS/  
MAN HOUR FEES

SEPTEMBER 1991 PLAN  
WITH NOVEMBER 1991 START

ACRES INTERNATIONAL REPORT DATE ----->  
FOR MONTH NUMBER --->  
FOR MONTH ENDING ---->

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***** HOURS *****													**MAN HOUR COSTS**		1991	AVG	LEVEL		
MONTH NUMBER --->		22	23	24	25	26	27	28	29	30	31	32	JOB TO DATE	TOTAL	JOB TO DATE \$	TOTAL \$		HOURLY RATE \$/HR	HOURLY RATE \$/HR
DEPARTMENT	DATE -->	AUG	SEP	OCT	NOV	DEC 1993	JAN 1994	FEB	MAR	APR	MAY	JUN 1994							
*****																			
FIELD SERVICES																			
TILGHMAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3,780	3,780	\$103,299	\$103,299	\$25.53	\$27.33	T3
	ACTUAL	170	206	196.5	216.5	160.5	168	169.5	0	0	0	0	4,510		\$124,628				
PERKINS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	2,310	2,310	\$48,304	\$48,304	\$19.87	\$20.91	P2
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	1,284		\$26,745				
BAKER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	315	315	\$7,543	\$7,543	\$21.72	\$23.95	P2
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	16		\$365				
MALEJS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	200	200	\$4,477	\$4,477	\$21.32	\$22.39	P3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0		\$0				
CIVIL INSP (HOLBERT)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	2,835	2,835	\$53,058	\$53,058	\$17.50	\$18.72	P2
	ACTUAL	230.5	232.5	225.5	229.5	188	39	0	0	0	0	0	4,749		\$74,600				
CIVIL INSP (NEWBERRY)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1,365	1,365	\$23,740	\$23,740	\$16.50	\$17.39	P1
	ACTUAL	0	59.5	0	0	0	0	0	0	0	0	0	996		\$13,395				
GAULRAPP (1)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3,465	3,465	\$54,047	\$54,047	\$14.59	\$15.60	P1
	ACTUAL	235.5	165.5	245	204.5	197	33.5	0	0	0	0	0	4,654		\$62,827				
TARBELL/DELL'ISOLA	PLANNED	0	0	0	0	0	0	0	0	0	0	0	350	350	\$6,806	\$6,806	\$17.88	\$19.44	P2
	ACTUAL	20	40	23.5	0	126.5	118.5	77	0	0	0	0	433		\$5,958				
DOYLE	PLANNED	0	0	0	0	0	0	0	0	0	0	0	500	500	\$11,482	\$11,482	\$21.03	\$22.96	T3
	ACTUAL	39	40	0	20	144.5	48	102.5	0	0	0	0	422		\$9,728				
RIDLEY* secretary	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3,780	3,780	\$55,635	\$55,635	\$13.75	\$14.72	T1*
	ACTUAL	195	186	192.5	179	179.5	102.5	15	8	0	0	0	4,091		\$55,261				
STACHOWSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	250	250	\$5,909	\$5,909	\$22.07	\$23.64	P2
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	46		\$1,066				
MANNERBERG (2)	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0	\$0	\$0	\$15.71	N/A	P2
	ACTUAL	241.5	229	0	0	0	14	0	0	0	0	0	1,375		\$23,565				
TOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	19,150	19,150	\$374,300	\$374,300		\$19.55	
	ACTUAL	1132	1159	883	850	996	524	364	8	0	0	0	22,573	0	\$398,137				

NEW JERSEY DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FLORENCE RECONTOURING LANDFILL  
TRAVEL

SEPTEMBER 1991 PLAN  
WITH NOVEMBER 1991 START

ACRES INTERNATIONAL CORPORATION

REPORT DATE -----> 08/04/94  
FOR MONTH NUMBER ---> 32  
FOR MONTH ENDING ---> 08/30/94

MONTH		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT	DATE			1992						1992						1993						1993
		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL
TRIPS TO SITE - OFFICE STAFF																						
LAMB	PLANNED			0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0
	ACTUAL	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
POMERHN	PLANNED			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ACTUAL	1	0	0	1	0	0	1	1	1	0	1	1	1	0	1	0	1	0	1	1	1
ZAMOJSKI	PLANNED			0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	ACTUAL	1	0	1	1	1	1	0	0	2	1	0	1	1	0	1	1	1	1	1	0	1
BOND	PLANNED						1		0	1	0	0	1	0	0	0	0	0	0	0	0	0
	ACTUAL						0		0	0	0	0	0	0	0	0	0	0	1	0	0	0
BALTZ	PLANNED				1		1	1	0	1	0	1	1	0	0	1	0	0	0	0	0	0
	ACTUAL				0		0	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0
BAKER	PLANNED				1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL				0				1	0	0	0	0	0	0	0	0	0	0	0	0	0
STEUERNAGEL	PLANNED								1	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL								0	0	0	0	0	0	0	0	0	0	0	0	0	0
COTRONEO	PLANNED							1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	PLANNED	0	0	1	4	2	4	5	3	4	2	3	4	3	2	3	2	2	2	2	3	2
	ACTUAL	3	0	1	2	1	1	1	2	3	1	2	2	3	0	3	1	2	2	3	1	2



NEW JERSEY DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FLORENCE RECONTOURING LANDFILL  
TRAVEL

SEPTEMBER 1991 PLAN  
WITH NOVEMBER 1991 START

ACRES INTERNATIONAL CORPORATION

REPORT DATE ----->  
FOR MONTH NUMBER --->  
FOR MONTH ENDING --->

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DEPARTMENT	MONTH DATE	22 AUG	23 SEP	24 OCT	25 NOV	26 DEC	27 JAN 1994	28 FEB	29 MAR	30 APR	31 MAY	32 JUNE 1994	TO DATE	TOTAL
<b>TRIPS TO SITE - OFFICE STAFF</b>														
LAMB	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3	3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	2	
POMERHN	PLANNED	1	0	0	0	0	0	0	0	0	0	0	20	20
	ACTUAL	1	1	0	1	1	1	0	0	0	0	0	18	
ZAMOJSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	18	18
	ACTUAL	1	0	1	1	1	0	0	0	0	0	0	20	
BOND	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3	3
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	1	
BALTZ	PLANNED	0	0	0	0	0	0	0	0	0	0	0	7	7
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	3	
BAKER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1	1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	1	
STEUERNAGEL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1	1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
COTRONEO	PLANNED	0	0	0	0	0	0	0	0	0	0	0	1	1
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	PLANNED	1	0	0	0	0	0	0	0	0	0	0	54	54
	ACTUAL	2	1	1	2	2	1	0	0	0	0	0	45	

NEW JERSEY DEPARTMENT OF  
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FLORENCE RECONTOURING LANDFILL  
TRAVEL

SEPTEMBER 1991 PLAN  
WITH NOVEMBER 1991 START

ACRES INTERNATIONAL CORPORATION

REPORT DATE -----> 06/04/94  
FOR MONTH NUMBER ---> 32  
FOR MONTH ENDING ---> 06/30/94

MONTH		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
DEPARTMENT		NOV	DEC	1992 JAN	FEB	MAR	APR	MAY	JUNE	1992 JUL	AUG	SEP	OCT	NOV	DEC	1993 JAN	FEB	MAR	APR	MAY	JUNE	1993 JUL
FIELD STAFF																						
A) LONG TERM STAFF																						
TILGHMAN	PLANNED			0	1	1	1	2	1	2	1	1	2	1	2	1	2	1	2	1	1	2
	ACTUAL	1		1	2	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	1	2
PERKINS	PLANNED					1	1	1	2	1	2	1	1	2	1	1	0	0	0	0	0	0
	ACTUAL					1	1	0	0	1	1	1	1	1	1	0	1	1	0	0	0	0
HEMPEL	PLANNED				1	1	1	2	1	2	1	1	2	1	2	1	2	1	2	1	2	0
	ACTUAL				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANNERBERG	PLANNED																		0	0	0	0
	ACTUAL																		1	1	1	2
SUBTOTAL	PLANNED			0	2	3	3	5	4	5	4	3	5	4	5	3	4	2	4	2	3	2
LONG TERM	ACTUAL		0	1	2	2	2	1	1	2	2	2	2	2	2	1	2	3	3	3	2	4
B) SHORT TERM STAFF																						
BAKER	PLANNED								0	0	0	0	0	0	0	0	0	2	4	0	0	0
	ACTUAL								1	0	0	0	0	0	0	0	0	0	0	0	0	0
MALEJS	PLANNED							2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TARBELL/DELL'ISOLA	PLANNED								1	1	0	0	0	0	0	0	0	0	1	0	2	2
	ACTUAL								0	0	0	0	0	0	0	0	0	0	0	0	0	1
DOYLE	PLANNED								0	1	1	0	0	0	0	0	0	2	2	0	2	2
	ACTUAL								0	0	0	0	0	0	0	0	0	0	0	0	0	1
STACHOWSKI	PLANNED				1				1	0	0	0	1	0	0	0	0	1	0	0	0	1
	ACTUAL				0			1	0	0	1	0	0	0	0	1	0	0	0	0	0	0
NEWBERRY	PLANNED											0	0	0	0	0	0	0	0	0	0	0
	ACTUAL									1	1	1	1	1	0	0	0	0	0	0	0	0
SUBTOTAL	PLANNED	0	0	0	1	0	0	2	4	2	1	0	1	0	0	0	0	5	7	0	4	5
SHORT TERM	ACTUAL	0	0	0	0	0	0	1	1	1	2	1	1	1	0	1	0	0	0	0	0	0

1. LONG TERM ASSIGNMENTS 1 ROUND TRIP AIRFARE (PHILADELPHIA - BUFFALO) EVERY 3RD WEEKEND - EXCURSION RATE - SATURDAY NIGHT STAY  
2. SHORT TERM ASSIGNMENTS 1 ROUND TRIP AIRFARE (PHILADELPHIA - BUFFALO) EVERY WEEKEND - CHEAPEST AVAILABLE AIRFARE

NEW JERSEY DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FLORENCE RECONTOURING LANDFILL  
TRAVEL

SEPTEMBER 1991 PLAN  
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MONTH		22	23	24	25	26	27	28	29	30	31	32	TO DATE	TOTAL
DEPARTMENT	DATE	AUG	SEP	OCT	NOV	DEC	1994 JAN	FEB	MAR	APR	MAY	1994 JUNE		
FIELD STAFF														
A) LONG TERM STAFF														
TILGHMAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	25	25
	ACTUAL	1	1	1	1	2	2	0	0	0	0	0	33	
PERKINS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	14	14
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	10	
HEMPEL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	24	24
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
MANNERBERG	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL	1	1	1	0	0	0	0	0	0	0	0	8	
SUBTOTAL LONG TERM	PLANNED	0	0	0	0	0	0	0	0	0	0	0	63	63
	ACTUAL	2	2	2	1	2	2	0	0	0	0	0	51	
B) SHORT TERM STAFF														
BAKER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	8	8
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	1	
MALEJS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	4	4
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
TARBELL/DELL'ISOLA	PLANNED	0	0	0	0	0	0	0	0	0	0	0	7	7
	ACTUAL	1	2	1	0	3	2	1	0	1	0	0	12	
DOYLE	PLANNED	0	0	0	0	0	0	0	0	0	0	0	10	10
	ACTUAL	2	2	1	1	3	1	2	0	1	0	0	14	
STACHOWSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	5	5
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	3	
NEWBERRY	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL	0	1	0	0	0	0	0	0	0	0	0	6	
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MONTH		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21		
DEPARTMENT	DATE	NOV	DEC	1992 JAN	FEB	MAR	APR	MAY	JUNE	1992 JUL	AUG	SEP	OCT	NOV	DEC	1993 JAN	FEB	MAR	APR	MAY	JUNE	1993 JUL		
*****																								
MOTEL NIGHTS - OFFICE STAFF																								
LAMB	PLANNED			0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ACTUAL	1	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
POMERHN	PLANNED			0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0		
	ACTUAL	1	0	0	0	0	0	1	1	2	0	1	1	1	0	1	0	0	0	0	1	0		
ZAMOJSKI	PLANNED			0	0	1		0	1	0	0	1	0	0	0	0	0	1	0	0	1	0		
	ACTUAL	1	0	2		3	3	0	0	1	0	0	1	1	0	1	2	0	0	0	0	0		
BOND	PLANNED						1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0		
	ACTUAL				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
BALTZ	PLANNED				1		1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0		
	ACTUAL		0		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0		
BAKER/PERKINS	PLANNED				3			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ACTUAL		0			4	0	0	0	0	0	0	0	0	0	0	2	4	0	0	0	0		
STEUERNAGEL	PLANNED							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ACTUAL					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
COTRONEO	PLANNED							0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	ACTUAL					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TOTAL	PLANNED	0	0	0	5	1	3	0	1	2	0	1	3	0	1	0	0	1	0	1	1	0		
	ACTUAL	3	0	2	0	7	3	1	1	3	0	2	2	2	0	2	4	4	0	0	1	0		

NEW JERSEY DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FLORENCE RECONTOURING LANDFILL  
LOGGING

SEPTEMBER 1991 PLAN  
WITH NOVEMBER 1991 START

ACRES INTERNATIONAL CORPORATION

REPORT DATE ----->  
FOR MONTH NUMBER --->  
FOR MONTH ENDING --->

08/04/94  
32  
08/30/94

	MONTH	22	23	24	25	26	27	28	29	30	31	32		
DEPARTMENT	DATE	AUG	SEP	OCT	NOV	DEC	1994 JAN	FEB	MAR	APR	MAY	1994 JUNE	TO DATE	TOTAL
MOTEL NIGHTS - OFFICE STAFF														
LAMB	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	1	
POMERHN	PLANNED	1	0	0	0	0	0	0	0	0	0	0	5	
	ACTUAL	0	1	0	0	1	1	0	0	0	0	0	13	
ZAMOJSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	5	
	ACTUAL	0	0	1	0	1	0	0	0	0	0	0	17	
BOND	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
BALTZ	PLANNED	0	0	0	0	0	0	0	0	0	0	0	5	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	1	
BAKER/PERKINS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	3	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	10	
STEUERNAGEL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
COTRONEO	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL	PLANNED	1	0	0	0	0	0	0	0	0	0	0	21	
	ACTUAL	0	1	1	0	2	1	0	0	0	0	0	42	2

MONTH		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
DEPARTMENT		DATE		1992			1992			1992			1992			1993			1993			1993	
		NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	JUL	
*****																							
FIELD STAFF																							
A) APARTMENT - MONTHS																							
TILGHMAN	PLANNED				0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
	ACTUAL		0	0	0	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
PERKINS	PLANNED					1	1	1	1	1	1	1	1	1	1	0.5	0	0	0	0	0	0	
	ACTUAL			0	0	0	0	0	0	1	1	1	1	1	0.5	0	0	0	0	0	0	0	
GAULRAPP	PLANNED					1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	
	ACTUAL			0	0	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
MANNERBERG	PLANNED																		0	0	0	0	
	ACTUAL																		1	1	1	1	
SUBTOTAL			0	0	0.5	3	3	3	3	3	3	3	3	3	3	2.5	2	2	2	2	2	1	
APTMNT - MONTHS	ACTUAL		0	0	0	1	2	2	2	3	3	3	3	3	2.5	2	2	2	3	3	3	3	
*****																							
B) MOTEL - NIGHTS																							
TILGHMAN	PLANNED			0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
	ACTUAL	2	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PERKINS	PLANNED				10			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL		0			0	3	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	
HEMPEL	PLANNED				10				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL		0				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BAKER	PLANNED								0	0	0	0	0	0	0	0	0	8	18	0	0	0	
	ACTUAL						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MALEJS	PLANNED							8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TARBELL/DELLISOLA	PLANNED								4	4	0	0	0	0	0	0	0	0	4	0	8	8	
	ACTUAL						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
DOYLE	PLANNED								0	4	4	0	0	0	0	0	0	8	8	0	8	8	
	ACTUAL						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
STACHOWSKI	PLANNED				4				4	0	0	0	4	0	0	0	0	4	0	0	0	4	
	ACTUAL		0				0	5	0	3	2	0	0	0	0	2	0	0	0	0	0	0	
NEWBERRY*	PLANNED											0	0	0	0	0	0	0	0	0	0	0	
	ACTUAL									10	22	28	28	28	0	0	0	0	0	0	0	0	
SUBTOTAL		0	0	0	34	0	0	8	18	8	4	0	4	0	0	0	0	20	28	0	18	28	
MOTEL - NIGHTS	ACTUAL	2	0	2	1	0	3	5	0	13	24	28	28	28	0	2	2	0	0	0	0	4	

DEPARTMENT	MONTH DATE	22 AUG	23 SEP	24 OCT	25 NOV	26 DEC	27 1994 JAN	28 FEB	29 MAR	30 APR	31 MAY	32 1994 JUNE	TO DATE	TOTAL
<b>FIELD STAFF</b>														
<b>A) APARTMENT - MONTHS</b>														
TILGHMAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	17.5	17.5
	ACTUAL	1	1	1	1	1	1	0	0	0	0	0	22.5	
PERKINS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	10.5	10.5
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	5.5	
GAULRAPP	PLANNED	0	0	0	0	0	0	0	0	0	0	0	18	18
	ACTUAL	1	1	1	1	1	0	0	0	0	0	0	21.5	
MANNERBERG	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL	1	1	1	0	0	0	0	0	0	0	0	7	
SUBTOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	44	44
APTMNT - MONTHS	ACTUAL	3	3	3	2	2	1	0	0	0	0	0	58.5	
<b>B) MOTEL - NIGHTS</b>														
TILGHMAN	PLANNED	0	0	0	0	0	0	0	0	0	0	0	18	18
	ACTUAL	0	0	0	0	0	0	12	0	0	0	0	17	
PERKINS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	10	10
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	5	
HEMPEL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	10	10
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
BAKER	PLANNED	0	0	0	0	0	0	0	0	0	0	0	24	24
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
MALEJS	PLANNED	0	0	0	0	0	0	0	0	0	0	0	18	18
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	0	
TARBELL/DELLISOLA	PLANNED	0	0	0	0	0	0	0	0	0	0	0	28	28
	ACTUAL	1	2	1	0	8	8	4	0	3	0	0	27	
DOYLE	PLANNED	0	0	0	0	0	0	0	0	0	0	0	40	40
	ACTUAL	2	2	0	1	8	2	5	0	3	0	0	25	
STACHOWSKI	PLANNED	0	0	0	0	0	0	0	0	0	0	0	20	20
	ACTUAL	0	0	0	0	0	0	0	0	0	0	0	12	
NEWBERRY*	PLANNED	0	0	0	0	0	0	0	0	0	0	0	0	0
	ACTUAL	0	4	0	0	0	0	0	0	0	0	0	120	
SUBTOTAL	PLANNED	0	0	0	0	0	0	0	0	0	0	0	188	188
MOTEL - NIGHTS	ACTUAL	3	8	1	1	18	8	21	0	6	0	0	206	